Theme: Numbers and Numeration (M-07-046)	CODE: B 1	Theme:	Numbers and Numeration (M-07-046)	CODE: B 1
Lesson Title: Introduction to ratio		Lesson	Title: Introduction to ratio	
What does the term ' ratio' mean?			compares two quantities of the same kir cups, kilometres, etc).	nd (for example,
	1½ minutes			
Theme: Numbers and Numeration (M-07-046)	CODE: B 2	Theme:	Numbers and Numeration (M-07-046)	CODE: B 2
Lesson Title: Introduction to ratio		Lesson	Title: Introduction to ratio	
Amadu has 5 pencils and 3 markers. Write down: i. The ratio of pencils to market ii. The ratio of markers to penci		Answer: (i) (ii)	5 is to 3, 5:3, for every 5 pencils 3 is to 5, 3:5, for every 3 markers	
Theme: Numbers and Numeration (M-07-047)	4 minutes CODE: B 3	Theme:	Numbers and Numeration (M-07-047)	CODE: B 3
Lesson Title: Ratio of the Whole			Title: Ratio of the Whole	
A farmer has 50 animals on his farm. These incl 17 goats, 10 cows and the rest are sheep. Write: i. The ratio of sheep to cows t ii. The ratio of goats to sheep t iii. The ratio of chickens to all a iv. The ratio of sheep to all anim	o goats to chickens to cows to chickens nimals	Answer:		
Theme: Numbers and Numeration (M-07-048)	CODE: B 4	Theme:	Numbers and Numeration (M-07-048)	CODE: B 4
Lesson Title: Ratios and Fraction		Lesson	Title: Ratios and Fraction	
 a. A class has 35 pupils of which there are 15 be Write the ratio of boys to girls as fraction in its lo b. Mr. Bundu has 48 animals on his farm. 18 are are cows. Write the ratio of goats to cows as a fir simplest form. 	e goats and the rest	Answer: (a) $\frac{1}{2}$	$\frac{5 \text{ boys}}{0 \text{ girls}} = \frac{3}{4} \text{ (b)} \frac{18 \text{ goats}}{30 \text{ cows}} = \frac{3}{5}$	

Theme: Numbers and Numeration (M-07-049)	CODE: B 5	Theme: Numbers and Numeration (M-07-049) CODE: B 5
Lesson Title: Ratio and percent		Lesson Title: Ratio and percent
		Answer:
What does the term 'percent' mean?		Percent means out of a total of 100.
	1½ minutes	
Theme: Numbers and Numeration (M-07-049)	CODE: B 6	Theme: Numbers and Numeration (M-07-049) CODE: B 6
Lesson Title: Ratio and percent		Lesson Title: Ratio and percent
a. Express these percent as ratios:		Answer;
i. 35%		a.
ii. 90%		i. 35:100
iii. 50%		ii. 90:100 iii. 50:100
b. Express these ratios as percent:		
i. 3:25 ii. 9:20		b.
11. 3.20		i. $\frac{3}{25} \times 100 = 12\%$ ii. $\frac{9}{20} \times 100 = 45\%$
	4 minutes	ii. $\frac{7}{20} \times 100 = 45\%$
Theme: Numbers and Numeration (M-07-050) Lesson Title: Ratio and decimal	CODE: B 7	Theme: Numbers and Numeration (M-07-050) CODE: B7 Lesson Title: Ratio and decimal
		Answer:
a. Express 400 cm: 1000 cm. as a	fraction, decimal,	a. $\frac{400cm}{1000cm} = \frac{2}{5} = 0.4 = 40\%$
and percentage.		
b. Express 45 minutes: 180 minute	es as a fraction,	b. $\frac{45 \min}{180 \min} = \frac{1}{4} = 0.25 = 25\%$
decimal, and percentage.		
	3 minutes	
Theme: Numbers and Numeration (M-07-051)	CODE: B8	Theme: Numbers and Numeration (M-07-051) CODE: B 8
Lesson Title: Simplification of ratios		Lesson Title: Simplification of ratios
		Answer:
What do we multiply by 4 to get 8?		We multiply by 2.
	2 minutes	
	2 minutes	

Theme: Numbers and Numeration (M-07-051)	CODE: B 9	Theme: Numbers and Numeration (M-07-051) CODE: B 9
Lesson Title: Simplification of ratios		Lesson Title: Simplification of ratios
		Answer:
a. Reduce 60:180 to its lowest terms.		a. 60:180 = 1:3
b. Find the missing number: 13:15 = 2	26:□	b. 30
c. Find the missing number: \Box :12 = 3	3:4	c. 9
	3 minutes	
Theme: Numbers and Numeration (M-07-052)	CODE: B 10	Theme: Numbers and Numeration (M-07-052) CODE: B 10
Lesson Title: Ratio problems with two terms		Lesson Title: Ratio problems with two terms
		Answer:
Share 120 sweets between Sia and Mariama in	the ratio 7:5	Sia's share = $\frac{7}{12}$ × 120 = 70 sweets
		Mariama's share = $\frac{5}{12}$ × 120 = 50 sweets
	2 minutes	
Theme: Numbers and Numeration (M-07-052)	CODE: B 11	Theme: Numbers and Numeration (M-07-052) CODE: B 11
Lesson Title: Ratio problems with two terms		Lesson Title: Ratio problems with two terms
		Answer:
a. Share 64 bananas between Christia the ratio 5:3	ana and Princess in	(a.) Christiana's share $=\frac{5}{8} \times 64$ = 40 bananas; Princess' share $=\frac{3}{8} \times 64$ = 24 bananas.
b. Divide <i>Le</i> 250,000 between John a	nd Thomas in the	
ratio 2:8		$I_{0}(h) I_{0}(h) = \frac{2}{3} \times 250000 = I_{0}(h) = I_{0}(h)$
		(b.) John's share = $\frac{2}{10}$ ×250,000 = <i>Le</i> 50,000 Thomas' share = $\frac{8}{10}$ ×250,000 = <i>Le</i> 200,000
		(b.) John's share = $\frac{1}{10}$ ×250,000 = <i>Le</i> 50,000 Thomas' share = $\frac{8}{10}$ ×250,000 = <i>Le</i> 200,000
	4 minutes	10
	4 minutes	Thomas' share = $\frac{8}{10} \times 250,000$ = <i>Le</i> 200,000
Theme: Numbers and Numeration (M-07-053)	4 minutes CODE: B 12	Thomas' share = $\frac{8}{10} \times 250,000$ = <i>Le</i> 200,000 Theme: Numbers and Numeration (M-07-053) CODE: B 12
	4 minutes CODE: B 12	Thomas' share = $\frac{8}{10} \times 250,000$ = <i>Le</i> 200,000
Theme: Numbers and Numeration (M-07-053)	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10} \times 250,000$ = $Le200,000$ Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more terms
Theme: Numbers and Numeration (M-07-053) Lesson Title: Ratio problems with three or more 3 sisters divided 30 pineapples between them in	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10}$ ×250,000= Le200,000Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more termsAnswer:
Theme: Numbers and Numeration (M-07-053) Lesson Title: Ratio problems with three or more	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10}$ ×250,000= Le200,000Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more termsAnswer:
Theme: Numbers and Numeration (M-07-053) Lesson Title: Ratio problems with three or more 3 sisters divided 30 pineapples between them in	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10}$ ×250,000= Le200,000Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more termsAnswer:
Theme: Numbers and Numeration (M-07-053) Lesson Title: Ratio problems with three or more 3 sisters divided 30 pineapples between them in	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10}$ ×250,000= Le200,000Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more termsAnswer:
Theme: Numbers and Numeration (M-07-053) Lesson Title: Ratio problems with three or more 3 sisters divided 30 pineapples between them in	4 minutes CODE: B 12 terms	Thomas' share = $\frac{8}{10}$ ×250,000= Le200,000Theme: Numbers and Numeration (M-07-053)CODE: B 12Lesson Title: Ratio problems with three or more termsAnswer:

Theme: Numbers and Numeration (M-07-053) CODE: B 13	Theme: Numbers and Numeration (M-07-053) CODE: B 13
Lesson Title: Ratio problems with three or more terms	Lesson Title: Ratio problems with three or more terms
	Answer:
Share Le 60,000 among four girls: Isata, M'balu, Fatu and Hawa in	Isata's share = $\frac{4}{L_{e}} \times Le60,000$ = $Le20,000$
the ratio 4:1:2:5.	12
How much is each side' share?	M'balu's share = $\frac{1}{12} \times Le60,000$ = $Le5000$ Fatu's share = $\frac{2}{12} \times Le60,000$ = $Le10,000$
How much is each girls' share?	Fatu's share = $\frac{2}{12} \times Le60,000$ = $Le10,000$
	Hawa's share = $\frac{5}{12}$ × <i>Le</i> 60,000 = <i>Le</i> 25,000
4 minutes	
Theme: Numbers and Numeration (M-07-054) CODE: B 14	Theme: Numbers and Numeration (M-07-054) CODE: B 14
Lesson Title: Relating ratios to measurement	Lesson Title: Relating ratios to measurement
	Answer:
Explain what the total ratio means in sharing a given quantity in a	The total ratio tells us into how many parts the quantity to be
given ratio.	shared has been divided.
2 minutes	
	Theme: Numbers and Numeration (M-07-054) CODE: B 15
Theme: Numbers and Numeration (M-07-054) CODE: B 15	Theme: Numbers and Numeration (M-07-054) CODE: B 15
Lesson Title: Relating ratios to measurement	Theme: Numbers and Numeration (M-07-054) CODE: B 15 Lesson Title: Relating ratios to measurement Answer:
Lesson Title: Relating ratios to measurement a. Mr. Leigh's study table is in the shape of a rectangle of width	Lesson Title: Relating ratios to measurement Answer:
Lesson Title: Relating ratios to measurement a. Mr. Leigh's study table is in the shape of a rectangle of width 80cm and length 100cm. Calculate the ratio of the width to the	Lesson Title: Relating ratios to measurement
Lesson Title: Relating ratios to measurement a. Mr. Leigh's study table is in the shape of a rectangle of width	Lesson Title: Relating ratios to measurement Answer: (a) 80cm : 100cm = 4:5
Lesson Title: Relating ratios to measurement a. Mr. Leigh's study table is in the shape of a rectangle of width 80cm and length 100cm. Calculate the ratio of the width to the	Lesson Title: Relating ratios to measurementAnswer:(a) 80cm : 100cm = 4:5(b)first portion: $\frac{3}{10}$ ×20cm = 6cm
Lesson Title: Relating ratios to measurement a. Mr. Leigh's study table is in the shape of a rectangle of width 80cm and length 100cm. Calculate the ratio of the width to the length in its simplest form.	Lesson Title: Relating ratios to measurementAnswer:(a) 80cm : 100cm = 4:5(b) first portion: $\frac{3}{10} \times 20$ cm = 6cm second portion: $\frac{2}{10} \times 20$ cm = 4cm
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Theme: Numbers and Numeration (M-07-056)	CODE: B 17	Theme:	Numbers and Numeration (M-07-056)	CODE: B 17
Lesson Title: Introduction to integers		Lesson	Title: Introduction to integers	
Complete the following sentence:		Answer:		
All numbers greater than zero are		All numb	pers greater than zero are positive nu	mbers, and all
and all numbers less than zero are		numbers	s less than zero are negative numbers	S.
	2 minutes			
Theme: Numbers and Numeration (M-07-056)	CODE: B 18	Theme:	Numbers and Numeration (M-07-056)	CODE: B 18
Lesson Title: Introduction to integers		Lesson ⁻	Title: Introduction to integers	
		Answer:	· · · · · · · · · · · · · · · · · · ·	
Determine whether each number is positive or	negative:		(a) positive	
(a) +7			(b) negative	
(b) -12			(c) negative	
(c) -6			(d) positive	
(d) 14			(e) neither positive nor negative	
(e) 0				
	2 minutos			
	2 minutes			
Theme: Numbers and Numeration (M-07-057)	CODE: B 19	Theme:	Numbers and Numeration (M-07-057)	CODE: B 19
Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	CODE: B 19	Lesson	Title: Positive and negative integers	CODE: B 19
	CODE: B 19		Title: Positive and negative integers	CODE: B 19
Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	CODE: B 19
		Lesson	Title: Positive and negative integers	CODE: B 19
Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	CODE: B 19
Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	CODE: B 19
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Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	CODE: B 19
Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	CODE: B 19
Lesson Title: Positive and negative integers In which direction do we find positive integers f	rom zero? 1½ minutes	Lesson Answer: The righ	Title: Positive and negative integers t.	
Lesson Title: Positive and negative integers In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057)	rom zero?	Lesson Answer: The righ	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	CODE: B 19 CODE: B 20
Lesson Title: Positive and negative integers In which direction do we find positive integers f	rom zero? 1½ minutes	Lesson Answer: The righ	Title: Positive and negative integers t.	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057)	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	
Lesson Title: Positive and negative integers In which direction do we find positive integers f In which direction do we find positive integers f In which direction do we find positive integers f Theme: Numbers and Numeration (M-07-057) Lesson Title: Positive and negative integers	rom zero? 1½ minutes CODE: B 20	Lesson Answer: The righ Theme: Lesson Answer:	Title: Positive and negative integers t. Numbers and Numeration (M-07-057)	

Theme: Numbers and Numeration (M-07-057)	CODE: B 21	Theme:	Numbers and Numeration (M-07-057)	CODE: B 21
Lesson Title: Positive and negative integers		Lesson	Title: Positive and negative integers	
		Answer		
Is zero a positive or a negative integer?		It is neit	her a positive nor a negative integer.	
	1 ¹ / ₂ minutes			
Theme: Numbers and Numeration (M-07-057)	CODE: B 22	Theme:	Numbers and Numeration (M-07-057)	CODE: B 22
Lesson Title: Positive and negative integers			Title: Positive and negative integers	
		Answer		
a. Write down the symbol for 'greater th		a.	The symbol for 'greater than' is:	> <
b. Write down the symbol for 'less than'	•	b.	The symbol for 'less than' is:	
	1 ¹ / ₂ minutes			
		TI		
Theme: Numbers and Numeration (M-07-057)	CODE: B 23	Theme:	Numbers and Numeration (M-07-057)	CODE: B 23
Theme:Numbers and Numeration (M-07-057)Lesson Title:Positive and negative integers	CODE: B 23	Lesson	Title: Positive and negative integers	CODE: B 23
	CODE: B 23		Title: Positive and negative integers	CODE: B 23
Lesson Title: Positive and negative integers		Lesson Answer:	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge		Lesson Answer: Number	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence:		Lesson Answer:	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge		Lesson Answer: Number	Title: Positive and negative integers	
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Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge		Lesson Answer: Number	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge	er than numbers to	Lesson Answer: Number	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge	er than numbers to	Lesson Answer: Number	Title: Positive and negative integers	
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigge the	er than numbers to 11/2 minutes	Lesson Answer: Number the left.	Title: Positive and negative integers	er than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 11/2 minutes	Lesson Answer: Number the left.	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers	er than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer:	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer:	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers tive numbers are less than positive num	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers tive numbers are less than positive num	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers tive numbers are less than positive num	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers tive numbers are less than positive num	Jer than numbers to
Lesson Title: Positive and negative integers Complete the following sentence: Numbers to the right on a number line are bigged the	er than numbers to 1½ minutes CODE: B 24	Lesson Answer: Number the left. Theme: Lesson Answer: All nega	Title: Positive and negative integers s to the right on a number line are bigg Numbers and Numeration (M-07-057) Title: Positive and negative integers tive numbers are less than positive num	Jer than numbers to CODE: B 24

Theme: Numbers and Numeration (M-07-057)	CODE: B 25	Theme:	Numbers and Numeration (M-07-057)	ODE: B 25
Lesson Title: Positive and negative integers		Lesson	Title: Positive and negative integers	
a. List these integers in order from grea	test to least:	Answer:		
-9, 8, 15, -8, -1, 9		(a)	15, 9, 8, -1, -9, -8	
b. Use < or > to compare each pair of int (i) -30 and 8 (ii) -3 and -12	legers:	(b)	(i) −30 < 8, (ii) −3 > −12	
	3 minutes			
Theme: Numbers and Numeration (M-07-059)	CODE: B 26	Theme:		ODE: B 26
Lesson Title: Addition of integers using a number	er line		Title: Addition of integers using a number lin	ie
Draw a number line and solve:		Answer:		-3 + 9 = 6;
(a) −1−7 (b) 4+6 (c) −3+9		(b)	-10 -9 -8 -7 -6 -5 -4 -3 -2 (3) 0 1 2 3 4 5	6 7 8 9 10
			-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	till ¹⁰
	4 minutes	(c)	-10 -9 -8 -7 -6 -5 -4 3 -2 -1 0 1 2 3 4 5	6 7 8 9 10
Theme: Numbers and Numeration (M-07-060)	CODE: B 27	Theme:	Numbers and Numeration (M-07-060)	ODE: B 27
Lesson Title: Addition of integers			Title: Addition of integers	
		Answer:		
What is 7 plus 4?		7 plus 4	= 11	
	1½ minutes			
Theme: Numbers and Numeration (M-07-060)	CODE: B 28	Theme:	Numbers and Numeration (M-07-060)	ODE: B 28
Lesson Title: Addition of integers			Title: Addition of integers	
Complete the following:		Answer:		
	(a) (+) + (-) -	(2)	_	
(a.) $(-) + (-) = $ (b.) $(+) + (+) = $	(c.) (+) + (-) =	(a.) (b.) (c.)		
	2½ minutes			

Theme: Numbers and Numeration (M-07-060)	CODE: B 29	Theme: Numbers and Numeration (M-07-060) CODE: B 29
Lesson Title: Addition of integers		Lesson Title: Addition of integers
Complete the following:		Answer:
(a) (-5) + (-12) (b) (+17) + (-24)		(a) $(-5) + (-12) = -17$ (b) $(+17) + (-24) = 17 - 24 = -7$ (c) $(-31) + (+15) = -16$
(c) $(-31) + (+15)$		(c) $(-31) + (+15) = -16$
	4 minutes	
Theme: Numbers and Numeration (M-07-061)	CODE: B 30	Theme: Numbers and Numeration (M-07-061) CODE: B30
Lesson Title: Subtraction of integers		Lesson Title: Subtraction of integers Answer:
Solve the following:		
(a) -3 - (-3) =		(a) −3 + 3 = 0
(b) $+3 - (+3) =$		(b) $+3-3=0$
(c) +3 - (-3) =		(c) +3 + 3 = 6
	2 minutes	
Theme: Numbers and Numeration (M-07-061)	CODE: B 31	Theme: Numbers and Numeration (M-07-061) CODE: B 31
Lesson Title: Subtraction of integers	0002.001	Lesson Title: Subtraction of integers
		Answer:
Simplify the following:		
(-) $(-)$		
(a) -6 – (-9)		(a) $-6 - (-9) = -6 + 9 = 3$
(b) $8 - (+12)$		(a) $-6 - (-9) = -6 + 9 = 3$ (b) $8 - (+12) = 8 - 12 = -4$ (c) $3 - (-8) = 3 + 8 = 11$
		(a) $-6 - (-9) = -6 + 9 = 3$ (b) $8 - (+12) = 8 - 12 = -4$ (c) $3 - (-8) = 3 + 8 = 11$
(b) $8 - (+12)$		(a) $-6 - (-9) = -6 + 9 = 3$ (b) $8 - (+12) = 8 - 12 = -4$ (c) $3 - (-8) = 3 + 8 = 11$
(b) $8 - (+12)$	1 min. 4	(a) $-6 - (-9) = -6 + 9 = 3$ (b) $8 - (+12) = 8 - 12 = -4$ (c) $3 - (-8) = 3 + 8 = 11$
(b) $8 - (+12)$	4 minutes	(a) $-6 - (-9) = -6 + 9 = 3$ (b) $8 - (+12) = 8 - 12 = -4$ (c) $3 - (-8) = 3 + 8 = 11$
(b) 8 - (+12) (c) 3 - (-8) Theme: Numbers and Numeration (M-07-062)	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32
(b) $8 - (+12)$ (c) $3 - (-8)$	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line
(b) 8 - (+12) (c) 3 - (-8) Theme: Numbers and Numeration (M-07-062)	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32
 (b) 8 - (+12) (c) 3 - (-8) Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following:	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer:
(b) $8 - (+12)$ (c) $3 - (-8)$ Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following: (a) $-x - = \Box$	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer: (a) +
 (b) 8 - (+12) (c) 3 - (-8) Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following:	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer:
(b) $8 - (+12)$ (c) $3 - (-8)$ Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following: (a) $-x - = \Box$ (b) $+x - = \Box$	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer: (a) + (b) - -
(b) $8 - (+12)$ (c) $3 - (-8)$ Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following: (a) $-x - = \Box$ (b) $+x - = \Box$	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer: (a) + (b) - -
(b) $8 - (+12)$ (c) $3 - (-8)$ Theme: Numbers and Numeration (M-07-062) Lesson Title: Multiplication of numbers using n Complete the following: (a) $-x - = \Box$ (b) $+x - = \Box$	CODE: B 32	Theme: Numbers and Numeration (M-07-062) CODE: B 32 Lesson Title: Multiplication of numbers using number line Answer: (a) + (b) - -

Theme: Numbers and Numeration (M-07-062)	CODE: B 33	Theme: Numbers and Numeration (M-07-062) CODE: B 33
Lesson Title: Multiplication of numbers using number line		Lesson Title: Multiplication of numbers using number line
Solve the following:		Answer:
(a) 2×3 (b) $2 \times (-3)$ (c) $(-2) \times (-3)$		(a) $2 \times 3 = 6$ (b) $2 \times (-3) = -6$ (c) $(-2) \times (-3) = 6$
	2½ minutes	
Theme: Numbers and Numeration (M-07-063)	CODE: B 34	Theme: Numbers and Numeration (M-07-063) CODE: B 34
Lesson Title: Multiplication of integers		Lesson Title: Multiplication of integers
Complete the following:		Answer:
positive x positive = negative x nega	tive =	positive x positive = positive negative x negative = positive
positive x negative = negative x positi	ive =	positive x negative = negative negative x positive = negative
	2 ¹ / ₂ minutes	
Theme: Numbers and Numeration (M-07-063)	CODE: B 35	Theme: Numbers and Numeration (M-07-063) CODE: B 35
Lesson Title: Multiplication of integers Simplify the following: (a) (-4) × (+3) (b) (-100) × (-3)	(c) (+92) × (-3)	Lesson Title: Multiplication of integers Answer: (a) -12 (b) 300 (c) -276
	2 ¹ / ₂ minutes	
Theme: Everyday Arithmetic (M-07-064)		
	CODE: B 36	Theme: Everyday Arithmetic (M-07-064) CODE: B 36
Lesson Title: Division of integers	CODE: B 36	Theme: Everyday Arithmetic (M-07-064) CODE: B 36 Lesson Title: Division of integers
	CODE: B 36	
Lesson Title: Division of integers Complete the following:	CODE: B 36	Lesson Title: Division of integers
Lesson Title: Division of integers Complete the following: a. positive ÷ positive		Lesson Title: Division of integers Answer:

	CODE: B 37	Theme: Everyday Arithmetic (M-07-064) CODE: B 37
Lesson Title: Division of integers		Lesson Title: Division of integers
Simplify the following:		Answer:
a) (+28) ÷ (+4)		(a) 7; (b) -7 (c) 150 (d) -50
b) $(-49) \div 7$		
c) (-1500) ÷ (-10) d) (+550) ÷ (-11)		
u) (+550)÷(-11)		
	4 minutes	
Theme: Everyday Arithmetic (M-07-065)	CODE: B 38	Theme: Everyday Arithmetic (M-07-065) CODE: B 38
Lesson Title: Story problems on integers		Lesson Title: Story problems on integers
		Answer:
What should we do in this problem?		We should add. We know this because of the word 'more'.
James has 28 mangos. If Mary has 10 mango	os more than James	28 + 10 = 38 mangoes
how many mangoes does Mary have?		
	2 minutes	
	2 11111000	
Theme: Everyday Arithmetic (M-07-065)	CODE: B 39	Theme: Everyday Arithmetic (M-07-065) CODE: B 39
Lesson Title: Story problems on integers		Lesson Title: Story problems on integers
		Answer:
What should we do in this problem?		We should subtract. We know this because of the word 'fewer'.
'		
	er coins, how many	20 – 4 = 16 coins
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have?	er coins, how many	20 – 4 = 16 coins
Tommy has 20 coins. If his brother has 4 few	er coins, how many	20 – 4 = 16 coins
Tommy has 20 coins. If his brother has 4 few	er coins, how many	20 – 4 = 16 coins
Tommy has 20 coins. If his brother has 4 few	er coins, how many 2 minutes	20 – 4 = 16 coins
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have?	2 minutes	
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065)		Theme: Everyday Arithmetic (M-07-065) CODE: B 40
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have?	2 minutes	Theme: Everyday Arithmetic (M-07-065) CODE: B 40 Lesson Title: Story problems on integers
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a	2 minutes CODE: B 40 and a fish is directly	Theme: Everyday Arithmetic (M-07-065) CODE: B 40 Lesson Title: Story problems on integers Answer: Image: Content of the story problems on integers
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a below the bird. If the fish is -12m. u	2 minutes CODE: B 40 and a fish is directly inder the sea, what is	Theme: Everyday Arithmetic (M-07-065) CODE: B 40 Lesson Title: Story problems on integers
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a below the bird. If the fish is -12m. u the distance between the bird and fi	2 minutes CODE: B 40 and a fish is directly under the sea, what is ish?	Theme: Everyday Arithmetic (M-07-065) CODE: B 40 Lesson Title: Story problems on integers Answer: Image: Content of the story problems on integers
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a below the bird. If the fish is -12m. u	2 minutes CODE: B 40 and a fish is directly inder the sea, what is ish? box of frozen fish is -	Theme:Everyday Arithmetic (M-07-065)CODE: B 40Lesson Title:Story problems on integersAnswer:(a) 8m-(-12m) = 8m + 12m = 20 m
Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a below the bird. If the fish is -12m. u the distance between the bird and fi b. The air temperature is 28°C and a b 3°C. What is the difference in temperature	2 minutes CODE: B 40 and a fish is directly inder the sea, what is ish? box of frozen fish is -	Theme:Everyday Arithmetic (M-07-065)CODE: B 40Lesson Title:Story problems on integersAnswer:(a) 8m-(-12m) = 8m + 12m = 20 m
 Tommy has 20 coins. If his brother has 4 fewer coins does the brother have? Theme: Everyday Arithmetic (M-07-065) Lesson Title: Story problems on integers a. A bird is flying 8m. above the sea a below the bird. If the fish is -12m. u the distance between the bird and fit b. The air temperature is 28°C and a base of the sea a 3°C. What is the difference in temperature is 28°C and a base of the sea a base of the sea a sea a below the bird and fit 	2 minutes CODE: B 40 and a fish is directly inder the sea, what is ish? box of frozen fish is -	Theme:Everyday Arithmetic (M-07-065)CODE: B 40Lesson Title:Story problems on integersAnswer:(a) 8m-(-12m) = 8m + 12m = 20 m

Theme:	Everyday Arithmetic (M-07-066)	CODE: B 41	Theme:	Everyday Arithmetic (M-07-066)	CODE: B 41
Lesson	Title: Simple proportion		Lesson T	itle: Simple proportion	
			Answer:		
What do you understand by the term ' proportion '.		A proportion is just two ratios that are equivalent or equal.		alent or equal.	
		1½ minutes			
		.,			
Theme:	Everyday Arithmetic (M-07-066)	CODE: B 42	Theme:	Everyday Arithmetic (M-07-066)	CODE: B 42
Lesson	Title: Simple proportion		Lesson T	itle: Simple proportion	
			Answer:		
What tv	pe of fractions are these:		Equivaler	nt fractions	
			1		
	$\frac{1}{2} = \frac{5}{10}$				
		1½ minutes			
Theme:	Everyday Arithmetic (M-07-066)	CODE: B 43	Theme:	Everyday Arithmetic (M-07-066)	CODE: B 43
	Title: Simple proportion		Lesson T	itle: Simple proportion	
Lesson			Lesson T Answer:	itle: Simple proportion	
Lesson	Title: Simple proportion		Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane ra	Title: Simple proportion	rs?	Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane rai a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter	rs?	Lesson T Answer: a.	itle: Simple proportion	conds
Lesson Jane rai a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter	rs?	Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane rai a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter	rs? seconds?	Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane rai a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter	rs?	Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane rai a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter	rs? seconds?	Lesson T Answer: a.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15$ sec	conds
Lesson Jane rai a. b.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10	rs? seconds? 4 minutes	Lesson T Answer: a. b.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$	conds eters
Lesson Jane rai a. b.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067)	rs? seconds? 4 minutes	Lesson T Answer: a. b.	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067)	conds eters
Lesson Jane rai a. b. Theme: Lesson	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067)	conds eters
Lesson Jane rai a. b.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067)	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067) itle: Simple interest	conds eters CODE: B 44
Lesson Jane rai a. b. Theme: Lesson	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067)	conds eters CODE: B 44
Lesson Jane rai a. b. Theme: Lesson a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest Express 5% as a fraction in its lowest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067) itle: Simple interest	conds eters CODE: B 44
Lesson Jane rai a. b. Theme: Lesson a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest Express 5% as a fraction in its lowest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067) itle: Simple interest	conds eters CODE: B 44
Lesson Jane rai a. b. Theme: Lesson a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest Express 5% as a fraction in its lowest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067) itle: Simple interest	conds eters CODE: B 44
Lesson Jane rai a. b. Theme: Lesson a.	Title: Simple proportion n 9 meters in 5 seconds. How long will she take to run 27 meter How many meters will she cover in 10 Everyday Arithmetic (M-07-067) Title: Simple interest Express 5% as a fraction in its lowest	rs? 9 seconds? 4 minutes CODE: B 44	Lesson T Answer: a. b. Theme: Lesson T Answer:	itle: Simple proportion $\frac{9}{5} = \frac{27}{y} \rightarrow y = \frac{27 \times 5}{9} = 15 \text{sec}$ $\frac{9}{5} = \frac{m}{10} \rightarrow m = \frac{9 \times 10}{5} = 18 \text{me}$ Everyday Arithmetic (M-07-067) itle: Simple interest	conds eters CODE: B 44

Theme:	Everyday Arithmetic (M-07-067)	CODE: B 45	Theme:	Everyday Arithmetic (M-07-067)	CODE: B 45
Lesson	Title: Simple interest		Lesson 7	Title: Simple interest	
			Answer:		
What do	you understand by the term 'principal'?)	Principa	I is the amount of money borrowed, len	t or invested
What do			1 moipe		
		1 ¹ / ₂ minutes			
Theme:	Everyday Arithmetic (M-07-067)	CODE: B 46	Theme:	Everyday Arithmetic (M-07-067)	CODE: B 46
Lesson	Title: Simple interest			Title: Simple interest	
Write do	wn the symbols of the following words:		Answer:		
Winte uU					
a.	Simple Interest		a.		
b. c.	Principal Rate		b. c.	P R	
d.	Time (in years)		d.	Т	
е.	Discount		е.	D	
f.	Commission		f.	С	
		2 minutes			
Theme:	Everyday Arithmetic (M-07-067)	CODE: B 47	Theme:	Everyday Arithmetic (M-07-067)	CODE: B 47
Lesson	Title: Simple interest		Answer:	Title: Simple interest	
			Answer.		
What for	mula do we use to calculate the simple	interest.		I = P x R x T	
		447 • •			
		1 ¹ / ₂ minutes			
Theme:	Everyday Arithmetic (M-07-067)	CODE: B 48	Theme:	Everyday Arithmetic (M-07-067)	CODE: B 48
	Title: Simple interest			Title: Simple interest	
			Answer:		
-	What is the interest noid on Lagrand -	rround for 2 more			
a.	What is the interest paid on Le2500 bo at a rate of 5% per annum?	nowed for 3 years	a.	$I = 2500 x \frac{5}{100} x 3 = Le375$	
			h	I = 22,500 x $\frac{7}{100}$ x 4 = Le6,300	
b.	Mary invested Le22,500 for 4 years at annum. What interest did she earn?	a rate of 7% per	D.	1 - 22,500 x = 100	
	מהחתוח. איוזמן ווונסופסן עוע סוופ פמווו?				
		4 minutes			
		i mindico			
			1		

Theme: Everyday Arithmetic (M-07-068)	CODE: B 49	Theme:	Everyday Arithmetic (M-07-068)	CODE: B 49
Lesson Title: Discount		Lesson	Title: Discount	
		Answer		
What formula do we use to calculate discount	What formula do we use to calculate discount ?		D = R x original price	
			(Discount = Rate x original p	orice)
	1 ¹ / ₂ minutes			
Theme: Everyday Arithmetic (M-07-068)	CODE: B 50	Theme:	Everyday Arithmetic (M-07-068)	CODE: B 50
Lesson Title: Discount			Title: Discount	
		Answe		
a. Find the sale price for an item that h	as a price tag of		D ²⁵ 400 - 0-	
Le100 and a discount rate of 25%.	as a price lay U	a.	$D = \frac{25}{100} \times 100 = Le25$	
	.1		Sale price = 100-25 = <i>Le</i> 75	
b. A baker has a coupon that reads, 'G				
bread.' What is the discount? What i the bread?	s the sale price of	b.	$D = \frac{1}{3} \times 900 = Le300$	
			The sale price of bread is 900-300	= <i>Le</i> 600
	3½ minutes			10000
				CODE: B 51
Theme: Everyday Arithmetic (M-07-069)	CODE: B 51	I homo	Everyday Arithmetic (ML07-060)	CODE: 8 51
		Theme:	Everyday Arithmetic (M-07-069)	0002.001
Lesson Title: Commission		Lesson	Title: Commission	
			Title: Commission	
		Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission		Lesson Answerz Commi	Title: Commission	
Lesson Title: Commission		Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission		Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission		Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission	sion'?	Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission		Lesson Answerz Commi	Title: Commission ssion is an amount of money that sor	
Lesson Title: Commission What do you understand by the term ' commis Theme: Everyday Arithmetic (M-07-069)	sion'?	Lesson Answer: Commi they sel	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069)	
Lesson Title: Commission What do you understand by the term 'commis	sion'? 1½ minutes	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when
Lesson Title: Commission What do you understand by the term ' commis Theme: Everyday Arithmetic (M-07-069)	sion'? 1½ minutes	Lesson Answer: Commi they sel	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when
Lesson Title: Commission What do you understand by the term ' commis Theme: Everyday Arithmetic (M-07-069)	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52
Lesson Title: Commission What do you understand by the term 'commis Theme: Everyday Arithmetic (M-07-069) Lesson Title: Commission	sion'? 1½ minutes CODE: B 52	Lesson Answer: Commithey sel Theme: Lesson	Title: Commission ssion is an amount of money that sor something. Everyday Arithmetic (M-07-069) Title: Commission	meone receives when CODE: B 52

Theme:	Everyday Arithmetic (M-07-069)	CODE: B 53	Theme: Everyday Arithmetic (M-07-069) CODE: B 53	
Lesson	Title: Commission		Lesson Title: Commission	
Abass works as a salesperson in a jewellery shop. He is paid on 5% commission on his sales. One very busy day he made the following four sales: a ladies' watch for Le200,000, a diamond necklace for Le500,000,		ales: ace for Le500,000,	Answer: Total sales = 200,000+500,000+120,000+300,000 = $Le1,120,000$ Commission= $\frac{5}{100} \times 1,120,000 = \frac{5,600,000}{100}$	
a pair of	cufflinks for Le120,000 and a gold brac	elet for Le300,000.	100 = Le 56.000	
What wa	as Abass' commission on his total sales	?		
		3 ¹ / ₂ minutes		
Theme:	Everyday Arithmetic (M-07-070)	CODE: B 54	Theme: Everyday Arithmetic (M-07-070) CODE: B 54	
Lesson	Title: Tax		Lesson Title: Tax	
			Answer:	
Define th	ne term ' taxes' .		Taxes are how a government raises money to cover public cost	ts.
		1 ¹ / ₂ minutes		
Theme:	Everyday Arithmetic (M-07-070)	CODE: B 55	Theme: Everyday Arithmetic (M-07-070) CODE: B 55	
	Everyday Arithmetic (M-07-070) Title: Tax	CODE: B 55	Theme:Everyday Arithmetic (M-07-070)CODE: B 55Lesson Title:Tax	
		CODE: B 55		
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson		CODE: B 55	Lesson Title: Tax	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson	Title: Tax	CODE: B 55	Lesson Title: Tax Answer:	
Lesson T	Title: Tax	1½ minutes	Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate.	
Lesson T What for Theme:	Title: Tax mula do we use to calculate sales tax? Everyday Arithmetic (M-07-070)		Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate. Theme: Everyday Arithmetic (M-07-070) CODE: B 56	
Lesson T What for Theme:	Title: Tax	1½ minutes	Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate. Theme: Everyday Arithmetic (M-07-070) CODE: B 56 Lesson Title: Tax	
Lesson T What for Theme:	Title: Tax mula do we use to calculate sales tax? Everyday Arithmetic (M-07-070)	1½ minutes	Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate. Theme: Everyday Arithmetic (M-07-070) CODE: B 56	
Lesson T What for Theme:	Title: Tax mula do we use to calculate sales tax? Everyday Arithmetic (M-07-070)	1½ minutes CODE: B 56	Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate. Theme: Everyday Arithmetic (M-07-070) CODE: B 56 Lesson Title: Tax	
Lesson T What for Theme: Lesson T a.	Title: Tax Title: Tax Title: Tax Everyday Arithmetic (M-07-070) Title: Tax Joe is buying shoes at a boutique, wh 3%. The shoes cost Le30, 000. How much is the tax?	1½ minutes CODE: B 56	Lesson Title: TaxAnswer:Sales tax = the cost of the item x tax rate.Theme: Everyday Arithmetic (M-07-070)CODE: B 56Lesson Title: TaxAnswer:a. $tax = \frac{3}{100} \times 30,000$ =Le900.	
Lesson T What for Theme: Lesson T	Title: Tax Title: Tax Title: Tax Everyday Arithmetic (M-07-070) Title: Tax Joe is buying shoes at a boutique, wh 3%. The shoes cost Le30, 000. How much is the tax? Moses buys a house for Le4, 000,000	1½ minutes CODE: B 56	Lesson Title: Tax Answer: Sales tax = the cost of the item x tax rate. Theme: Everyday Arithmetic (M-07-070) CODE: B 56 Lesson Title: Tax Answer:	
Lesson T What for Theme: Lesson T a.	Title: Tax Title: Tax Trula do we use to calculate sales tax? Everyday Arithmetic (M-07-070) Title: Tax Joe is buying shoes at a boutique, wh 3%. The shoes cost Le30, 000. How much is the tax? Moses buys a house for Le4, 000,000 6%.	1½ minutes CODE: B 56	Lesson Title: TaxAnswer:Sales tax = the cost of the item x tax rate.Sales tax = the cost of the item x tax rate.CODE: B 56Lesson Title: TaxAnswer:a. $tax = \frac{3}{100} \times 30,000 = Le900.$ b. $tax = \frac{6}{100} \times 4,000,000 = Le240,000$	000
Lesson T What for Theme: Lesson T a.	Title: Tax Title: Tax Title: Tax Everyday Arithmetic (M-07-070) Title: Tax Joe is buying shoes at a boutique, wh 3%. The shoes cost Le30, 000. How much is the tax? Moses buys a house for Le4, 000,000	1½ minutes CODE: B 56	Lesson Title: TaxAnswer:Sales tax = the cost of the item x tax rate.Theme: Everyday Arithmetic (M-07-070)CODE: B 56Lesson Title: TaxAnswer:a. $tax = \frac{3}{100} \times 30,000$ =Le900.	000
Lesson T What for Theme: Lesson T a.	Title: Tax Title: Tax Troula do we use to calculate sales tax? Everyday Arithmetic (M-07-070) Title: Tax Joe is buying shoes at a boutique, wh 3%. The shoes cost Le30, 000. How much is the tax? Moses buys a house for Le4, 000,000 6%.	1½ minutes CODE: B 56	Lesson Title: TaxAnswer:Sales tax = the cost of the item x tax rate.Sales tax = the cost of the item x tax rate.CODE: B 56Lesson Title: TaxAnswer:a. $tax = \frac{3}{100} \times 30,000 = Le900.$ b. $tax = \frac{6}{100} \times 4,000,000 = Le240,000$	000

Theme: Measurement and Estimation (M-07-071) CODE:	B 57 Theme: Measurement and Estimation (M-07-071) CODE: B 57
Lesson Title: Units of measurements	Lesson Title: Units of measurements
	Answer:
When might we need to measure volume?	When buying petrol, buying or selling water for example.
1½ min	nutee
17211111	
Theme: Measurement and Estimation (M-07-071) CODE:	, , , , , , , , , , , , , , , , , , ,
Lesson Title: Units of measurements	Lesson Title: Units of measurements
	Answer:
When might we need to measure mass, or weight?	To measure our own body mass, the mass of rice, the mass of
	gold being mined for example.
1½ min	nutes
Theme: Measurement and Estimation (M-07-071) CODE:	, , , , , , , , , , , , , , , , , , ,
Lesson Title: Units of measurements	Lesson Title: Units of measurements
Lesson Title: Units of measurements	, , , , , , , , , , , , , , , , , , ,
	Lesson Title: Units of measurements
Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example.
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE:	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE:	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer:
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer: Mass is the quantity of matter an object contains.
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer: Mass is the quantity of matter an object contains.
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer: Mass is the quantity of matter an object contains.
Lesson Title: Units of measurements Think of an example of a unit used to measure length. 1 minut Theme: Measurement and Estimation (M-07-071) CODE: Lesson Title: Units of measurements	Lesson Title: Units of measurements Answer: Centimetres, kilometres, feet, miles for example. te B 60 Theme: Measurement and Estimation (M-07-071) CODE: B 60 Lesson Title: Units of measurements Answer: Mass is the quantity of matter an object contains. It is related to the weight of the object.

Theme: Measurement and Estimation (M-07-071) CODE: B 61	Theme: Measurement and Estimation (M-07-071) CODE: B 61
Lesson Title: Units of measurements	Lesson Title: Units of measurements
	Answer:
What is volume ?	
	Volume is the capacity or space a substance occupies.
	We measure liquids in volume.
	we measure ilquids in volume.
1½ minutes	
Theme: Measurement and Estimation (M-07-071) CODE: B 62	Theme: Measurement and Estimation (M-07-071) CODE: B 62
Lesson Title: Units of measurements	Lesson Title: Units of measurements
	Answer:
(i) List 3 items whose length can be measured.	(i) Length – road, a person's height, football field
(ii) List 3 items whose mass can be measured.	(ii) Mass – bag of rice, humans, gold
(iii) List 3 items whose volume can be measured.	(iii) Volume – water, kerosene, petrol
3 minutes	
Theme: Measurement and Estimation (M-07-072) CODE: B 63	Theme: Measurement and Estimation (M-07-072) CODE: B 63
Lesson Title: Conversion of length	Lesson Title: Conversion of length
	Answer:
a. Which is longer: 1 metre or 1 kilometre?	a. 1 kilometre
b. Which is longer: 1 centimetre or 1 metre?	b. 1 metre
	b. Thete
1½ minutes	
Theme: Measurement and Estimation (M-07-071) CODE: B 64	Theme: Measurement and Estimation (M-07-071) CODE: B 64
Lesson Title: Units of measurements	Lesson Title: Units of measurements
	Answer:
(i) Name 2 units for measuring lengths	(i) metres, centimetres, kilometres, inches, yards
(ii) Name 2 units for measuring mass	 (i) metres, centimetres, kilometres, inches, yards (ii) gram, kilogramme, pound
(iii) Name 2 units for measuring volume	(iii) millilitres, litres
2 minutes	

Theme:	Measurement and Estimation (M-07-072) CODE: B 65	Theme:	Measurement and Estimation (M-07-072)	CODE: B 65
Lesson	Title: Conversion of length	Lesson 7	Fitle: Conversion of length	
		Answer:		
a.	Change 8243 mm to metres. Round your answer to one decimal place.	a.	8243mm = 8243÷1000m = 8.243m → 8.2 m	
b.	Add 703cm, 956cm and 168cm. Then, express your answer in metres.	b.	703+956+168 = 1827cm → 1827cm = 1827÷100m = 18.27m	
	3½ minutes			
Theme:	Measurement and Estimation (M-07-073) CODE: B 66	Theme:	Measurement and Estimation (M-07-073)	CODE: B 66
Lesson	Title: Conversion of mass		Title: Conversion of mass	
a. b. c.	How many millimetres in 1 centimetre? What is 1km in metres? How many centimetres in a metre?	Answer: a. b. c.	10mm 1000m 100cm	
Theme:	2 minutes Measurement and Estimation (M-07-073) CODE: B 67	Theme:	Measurement and Estimation (M-07-073)	CODE: B 67
	Title: Conversion of mass		Title: Conversion of mass	
		Answer:		
a. b.	Which is bigger: 1 gram or 1 kilogram? Which is smaller: 1 tonne or 1 milligram?	a. b.	1 kilogram 1 milligram	
	1½ minutes			
Theme:	Measurement and Estimation (M-07-073) CODE: B 68	Theme:	Measurement and Estimation (M-07-073)	CODE: B 68
Lesson	Fitle: Conversion of mass	Lesson 7	Title: Conversion of mass	
		Answer:		
a.	Change 6215mg to grams. Round your answer to 2 decimal places.	a.	6215mg = 6215÷1000g = 6.215g → 6.22 g	
b.	Add 574g, 603g, and 128g. Give your answer in kilograms.	b.	574+603+128 = 1305g → 1305g = 1305÷1000kg = 1.305kg	
	3 minutes			

Theme:	Measurement and Estimation (M-07-074)	CODE: B 69	Theme:	Measurement and Estimation (M-07-074)	CODE: B 69
Lesson	Title: Conversion of volume		Lesson	Title: Conversion of volume	
			Answer:		
	Which is bigger: 1 litre or 1 millilitre?			1 litre	
		1½ minutes			
		.,			
Theme:	Measurement and Estimation (M-07-074)	CODE: B 70	Theme:	Measurement and Estimation (M-07-074)	CODE: B 70
Lesson	Title: Conversion of volume		Lesson	Title: Conversion of volume	
			Answer		
	What are some things we measure wit	h litres?		Petrol, kerosene, water	
		1 ¹ / ₂ minutes			
		.,			
Theme:	Measurement and Estimation (M-07-074)	CODE: B 71	Theme:	Measurement and Estimation (M-07-074)	CODE: B 71
	Title: Conversion of volume	CODE: B 71	Lesson	Title: Conversion of volume	CODE: B 71
		CODE: B 71		Title: Conversion of volume	CODE: B 71
	Title: Conversion of volume	CODE: B 71	Lesson	Title: Conversion of volume	CODE: B 71
Lesson a.	Title: Conversion of volume Change 419 decilitres to litres.	CODE: B 71	Lesson Answer: a.	Title: Conversion of volume 419dl = 419÷10l = 41.9l	CODE: B 71
Lesson	Title: Conversion of volume	CODE: B 71	Lesson Answer:	Title: Conversion of volume 419dl = 419÷10l = 41.9l 34+1240+829 = 2103ml	CODE: B 71
Lesson a.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml.		Lesson Answer: a.	Title: Conversion of volume 419dl = 419÷10l = 41.9l	CODE: B 71
Lesson a.	Title: Conversion of volume Change 419 decilitres to litres.		Lesson Answer: a.	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$	CODE: B 71
Lesson a.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml.		Lesson Answer: a.	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$	CODE: B 71
Lesson a.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml.		Lesson Answer: a.	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$	CODE: B 71
Lesson a. b.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th	e nearest litre. 3 minutes	Lesson Answer: a. b.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres	
Lesson a. b.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075)	e nearest litre.	Lesson Answer: a. b.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075)	CODE: B 71
Lesson a. b.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th	e nearest litre. 3 minutes	Lesson Answer: a. b. Theme: Lesson	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes	
Lesson a. b.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075)	e nearest litre. 3 minutes	Lesson Answer: a. b.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes	
Lesson a. b.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075)	e nearest litre. 3 minutes CODE: B 72	Lesson Answer: a. b. Theme: Lesson	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes	
Lesson a. b. Theme: Lesson 1.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes Why are squares and rectangle called	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer: 1.	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes They have 4 sides each	
Lesson a. b. Theme: Lesson	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer:	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes	
Lesson a. b. Theme: Lesson 1.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes Why are squares and rectangle called	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer: 1.	Title: Conversion of volume $419dI = 419 \div 10I = 41.9I$ $34 \div 1240 \div 829 = 2103mI$ $\rightarrow 2103mI = 2103 \div 1000I = 2.103I$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes They have 4 sides each	CODE: B 72
Lesson a. b. Theme: Lesson 1. 2.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes Why are squares and rectangle called How many sides does a triangle have?	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer: 1. 2.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes They have 4 sides each 3 sides	CODE: B 72
Lesson a. b. Theme: Lesson 1. 2.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes Why are squares and rectangle called How many sides does a triangle have?	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer: 1. 2.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes They have 4 sides each 3 sides	CODE: B 72
Lesson a. b. Theme: Lesson 1. 2.	Title: Conversion of volume Change 419 decilitres to litres. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to th Measurement and Estimation (M-07-075) Title: Review of plane shapes Why are squares and rectangle called How many sides does a triangle have?	e nearest litre. 3 minutes CODE: B 72 quadrilaterals?	Lesson Answer: a. b. b. Theme: Lesson Answer: 1. 2.	Title: Conversion of volume $419dl = 419 \div 10l = 41.9l$ $34 \div 1240 \div 829 = 2103ml$ $\rightarrow 2103ml = 2103 \div 1000l = 2.103l$ $\rightarrow 2$ litres Measurement and Estimation (M-07-075) Title: Review of plane shapes They have 4 sides each 3 sides	CODE: B 72

Theme: Measurement and Estimation (M-07-075) CODE: B 73	Theme: Measurement and Estimation (M-07-075) CODE: B 73
Lesson Title: Review of plane shapes	Lesson Title: Review of plane shapes
Draw the following shapes: Rectangle EFGH, Square QRST, and Triangle ABC.	Answer:
3½ minutes	
Theme: Measurement and Estimation (M-07-075) CODE: B 74	Theme: Measurement and Estimation (M-07-075) CODE: B 74
Lesson Title: Review of plane shapes	Lesson Title: Review of plane shapes
Draw the following shapes: a scalene triangle ABC, an equilateral triangle DEF, an isosceles triangle RST, and a right-angled triangle XYZ. 4 minutes	Answer: A = C = C = C = C = C = C = C = C = C =
Theme: Measurement and Estimation (M-07-077) CODE: B 75	Theme: Measurement and Estimation (M-07-077) CODE: B 75
Lesson Title: Area of rectangles and squares	Lesson Title: Area of rectangles and squares
What is area?	Answer: Area is the size of the space inside a shape. A neighbourhood can also be called an area.
1½ minutes	
Theme: Measurement and Estimation (M-07-077) CODE: B 76	Theme: Measurement and Estimation (M-07-077) CODE: B 76
Lesson Title: Area of rectangles and squares a. What is the longest side of a rectangle called? b. What is the shortest side of a rectangle called?	Lesson Title: Area of rectangles and squares Answer: a. length b. width
1½ minutes	

Theme: Measurement and Estimation (M-07-077) CODE: B 77	Theme: Measurement and Estimation (M-07-077) CODE: B 77
Lesson Title: Area of rectangles and squares	Lesson Title: Area of rectangles and squares
	Answer:
a. What is the formula to calculate the area of a square?b. What is the formula to calculate the area of a rectangle?	a. Area of a square $= L \times L = L^2$ b. Area of a rectangle $= L \times W$
2 minutes	
Theme: Measurement and Estimation (M-07-077) CODE: B 78	Theme: Measurement and Estimation (M-07-077) CODE: B 78
Lesson Title: Area of rectangles and squares	Lesson Title: Area of rectangles and squares
Calculate the grap of these two shappes:	Answer:
Calculate the area of these two shapes:	$A = l \times l = 4 \text{ cm} \times 4 \text{ cm} = 16 \text{ cm}^2$ and $A = l \times w = 8 \text{ m} \times 3\text{m} = 24 \text{ m}^2$
2 ¹ / ₂ minutes Theme: Measurement and Estimation (M-07-078) CODE: B 79	Theme: Measurement and Estimation (M-07-078) CODE: B 79
Lesson Title: Area of triangles	Lesson Title: Area of triangles
Consider the following triangle: 3 m M M M M M M M M	Answer: a. The base is side MN, which in 4m in length. b. The height is side LM, which is 3m in length.
Theme: Measurement and Estimation (M-07-078) CODE: B 80	Theme: Measurement and Estimation (M-07-078) CODE: B 80
Lesson Title: Area of triangles	Lesson Title: Area of triangles
What is the formula to calculate the area of a triangle?	Answer: Area of a triangle = $\frac{1}{2}x$ base x height = $\frac{1}{2}x$ bh
1½ minutes	

Theme: Measurement and Estimation (M-07-078)	CODE: B 81	Theme: Measurement and Estimation (M-07-078) CODE: B 81
Lesson Title: Area of triangles		Lesson Title: Area of triangles
Find the error of this share.		Answer:
Find the area of this shape:		
		$A = \frac{1}{2} x \ 8km \ x \ 10km = 4km \ x \ 10km = 40km^2$
		2
h = 10 km		
b = 8 km		
	2½ minutes	
· · · ·	CODE: B 82	Theme: Measurement and Estimation (M-07-079) CODE: B 82
Lesson Title: Perimeter story problems		Lesson Title: Perimeter story problems
Label the following shapes:		Answer:
	L	There is a rectangle, a triangle and a square.
w t/ \t	L	
L		
2	2 minutes	
Theme: Measurement and Estimation (M-07-079)	CODE: B 83	Theme: Measurement and Estimation (M-07-079) CODE: B 83
Lesson Title: Perimeter story problems	CODE. B 83	Lesson Title: Perimeter story problems
		Answer:
Mr. Bangura wants to build a fence around his hou	ISE.	40 m
His yard is 40 metres long and 30 metres wide.		
This yaid is to metres long and 50 metres wide.		30 m
How long will the fence be?		
		P = 2 (40 m + 30 m) = 2 (70 m) = 140 m
	2½ minutes	
Theme: Measurement and Estimation (M-07-080) C	CODE: B 84	Theme: Measurement and Estimation (M-07-080) CODE: B 84
Lesson Title: Area story problems		Lesson Title: Area story problems
	ha aan h	Answer:
A Farmer wants to find the area of his farm so that fertilizer for his crops. His farm is 150 m long and 8		150 m
		80 m
What is the area of his farm?		
If one container of fertilizer covers 1000 square me	eters, how many	
containers of fertilizer will the farmer need?	, , , , , , , , , , , , , , , , , , ,	Area of farm: <i>A</i> = 150 m× 80 m = 12,000 m ² ;
		Containers of fertilizer: 12,000 m ² ÷1000m ² = 12 containers
2	21/2 minutes	

Theme: Measurement and Estimation (M-07-081)	CODE: B 85	Theme: Measurement and Estimation (M-07-081) CODE: B 85
Lesson Title: Circles		Lesson Title: Circles
Explain the meaning of the following terms:		Answer:
a. Centre b. Circumference c. Radius d. Diameter		 a. The centre is the point in the middle of a circle. b. The circumference is the distance around the circle. c. The radius is the distance from the centre to the circumference. d. The diameter is the distance across the circle, passing through the centre.
	3½ minutes	
Theme: Measurement and Estimation (M-07-081)	CODE: B 86	Theme: Measurement and Estimation (M-07-081) CODE: B 86
Lesson Title: Circles		Lesson Title: Circles
		Answer:
a. Sketch a circle with radius 7 m. What is the diameter?		a. 14m b. 21m
 Sketch a circle with diameter 42 m. What is the radius? 		a. <u>r=7 m</u> b. <u>d=42 m</u>
	2 ¹ / ₂ minutes	
Theme: Measurement and Estimation (M-07-082)	CODE: B 87	Theme: Measurement and Estimation (M-07-082) CODE: B 87
Lesson Title: Circumference of circles		Lesson Title: Circumference of circles
		Answer:
a. What is the circumference of a circle $(\text{Use } \frac{22}{7} \text{ for the value of } \pi).$	with radius 21 cm?	a. $C = 2\pi r = 2 \times \frac{22}{7} \times 21 \text{ cm} = 132 \text{ cm}$
b. What is the circumference of a circle v $(Use \frac{22}{7} \text{ for the value of } \pi).$	vith diameter 56 in?	
$(Use \frac{1}{7})$ for the value of π).		$\rightarrow C = 2\pi r = 2 \times \frac{22}{7} \times 28$ in
		= 2×22×4 in = 44×4 in
	3 ¹ / ₂ minutes	= 176 in
Thoma: Massurement and Estimation (M.07.002)	CODE: B 88	Theme: Measurement and Estimation (M-07-083) CODE: B 88
Theme: Measurement and Estimation (M-07-083) Lesson Title: Area of circles		Theme: Measurement and Estimation (M-07-083) CODE: B 88 Lesson Title: Area of circles
		Answer:
What is the formula to calculate the area of a cir	cle?	Area of a circle = πr^2
	1½ minutes	

Theme:	Measurement and Estimation (M-07-083)	CODE: B 89	Theme:	Measurement and Estimation (M-07-083)	CODE: B 89
Lesson	Title: Area of circles		Lesson	Title: Area of circles	
			Answer:		
a.	Find the area of a circle of radius 8 cm		a.	$A = 3.14 \times (4 \text{ cm})^2 = 50.24 \text{ cm}^2$	
b.	Find the area of a circle of radius 12 cr	n	b.	$A = 3.14 \times (12 \text{ cm})^2 = 452.16 \text{ cm}^2$	
		3½ minutes			
		5/2 minutes			
Theme:	Measurement and Estimation (M-07-084)	CODE: B 90	Theme:	Measurement and Estimation (M-07-084)	CODE: B 90
Lesson	Title: Problem solving with circles		Lesson	Title: Problem solving with circles	
	• •		Answer:	=	
M/hatia	circumference2		The dist		
what is	circumference?		The dist	ance around a circle.	
		1 ¹ / ₂ minutes			
		1/2 111110185			
Theme:	Measurement and Estimation (M-07-084)	CODE: B 91	Theme:	Measurement and Estimation (M-07-084)	CODE: B 91
meme.		0002.031			
	Title: Problem solving with circles			Title: Problem solving with circles	
				Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson			Lesson	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles	1½ minutes	Lesson Answer:	Title: Problem solving with circles	
Lesson	Title: Problem solving with circles		Lesson Answer:	Title: Problem solving with circles	CODE: B 92
Lesson What is	Title: Problem solving with circles a semi-circle?	1½ minutes	Lesson Answer: It is half	Title: Problem solving with circles	
Lesson What is	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles	1½ minutes	Lesson Answer: It is half	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles	
Lesson What is	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084)	1½ minutes	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles	
Lesson What is	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure:	1½ minutes	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles	
Lesson What is	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure:	1½ minutes CODE: B 92	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles	
Lesson What is	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure:	1½ minutes CODE: B 92	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles $r = \frac{14 m.}{2}$	
Lesson What is Theme: Lesson Conside	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure:	1½ minutes CODE: B 92	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles $r = \frac{14 m.}{2}$	
Lesson What is Theme: Lesson Conside	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure: d=1	1½ minutes CODE: B 92	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles $r = \frac{14 m.}{2}$	
Lesson What is Theme: Lesson Conside	Title: Problem solving with circles a semi-circle? Measurement and Estimation (M-07-084) Title: Problem solving with circles er the following figure: d=1	1½ minutes CODE: B 92	Lesson Answer: It is half Theme: Lesson	Title: Problem solving with circles a circle. Measurement and Estimation (M-07-084) Title: Problem solving with circles $r = \frac{14 m.}{2}$	

Theme: Measurement and Estimation (M-07-084) CODE: B 93	Theme: Measurement and Estimation (M-07-084) CODE: B 93
Lesson Title: Problem solving with circles	Lesson Title: Problem solving with circles
Solve: A semi-circle has a diameter of 28cm. What is the area? (use $\pi = \frac{22}{7}$) d=28 cm 3 minutes Theme: Measurement and Estimation (M-07-084) CODE: B 94 Lesson Title: Problem solving with circles	Answer: Area of the semicircle $= \frac{1}{2} \pi r^{2}$ $= \frac{1}{2} \frac{r^{2}}{7} \times (14 \text{ m})^{2}$ $= \frac{11}{7} \times 196 \text{ m}^{2}$ $= 11 \times 28m^{2}$ $= 308m.^{2}$ Theme: Measurement and Estimation (M-07-084) CODE: B 94 Lesson Title: Problem solving with circles
	Answer:
Calculate the area of the shape below (use $\pi = \frac{22}{7}$). A B 14 cm c 30 cm 41/2 minutes	Area of $A + C = \pi r^2$ $= \frac{22}{7} \times (7 \text{ cm})^2$ $= \frac{22}{7} \times 49 \text{ cm}^2 = 22 \times 7 \text{ cm}^2$ $= 154 \text{ cm}^2$ Area of $B = 30 \text{ cm} \times 14 \text{ cm} = 420 \text{ cm}^2$ Area of $A+B+C = 154 \text{ cm}^2 + 420 \text{ cm}^2 = 574 \text{ cm}^2$
Theme: Measurement and Estimation (M-07-085) CODE: B 95	Theme: Measurement and Estimation (M-07-085) CODE: B 95
Lesson Title: Circle story problems a. A goat is tied to a peg in the ground. The rope is 3 m. long. What area of grass can the goat eat? (Use $\pi = 3.14$) b. A circular mat has a radius of 2 m. Calculate the area of the mat. (Use $\pi = 3.14$) 4 minutes	Lesson Title: Circle story problems Answer: a. $A = \pi r^2 = 3.14 \times (3 \text{ m})^2 = 3.14 \times 9 \text{ m}^2 = 28.26 \text{ m}^2$ b. $A = \pi r^2 = 3.14 \times (2 \text{ m})^2 = 3.14 \times 4 \text{ m}^2 = 12.56 \text{ m}^2$ (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Theme: Measurement and Estimation (M-07-086) CODE: B 96	Theme: Measurement and Estimation (M-07-086) CODE: B 96
Lesson Title: Volume of solids a. Find the area of a rectangle with length 7 cm and width 5 cm b. What does a square unit measure?	Lesson Title: Volume of solids Answer: a. Area = I×w = 7 cm×5 cm = 35 cm² b. A square unit measures area
2½ minutes	

Theme:	Measurement and Estimation (M-07-086)	CODE: B 97	Theme:	Measurement and Estimation (M-07-086)	CODE: B 97
Lesson	Title: Volume of solids		Lesson 7	Title: Volume of solids	
a.	Draw a rectangular prism with height 5	im length 3m and	Answer:		
b.	width 2m What units will the volume be in?		(a)	5 m	(b) m ³
				3 m	
		3 minutes			
Theme:	Measurement and Estimation (M-07-087)	CODE: B 98	Theme:	Measurement and Estimation (M-07-087)	CODE: B 98
Lesson	Title: Volume of a cube		Lesson 7	Title: Volume of a cube	
			Answer:		
a.	State the formula of the volume of a re	ctangular solid.	a.	$V = l \times_W \times h$	
b.	If the unit is feet, what will the unit for v	volume be?	b.	cubic feet	
		2 minutes			
Theme:	Measurement and Estimation (M-07-087)	CODE: B 99	Theme:	Measurement and Estimation (M-07-087)	CODE: B 99
Lesson	Title: Volume of a cube		Lesson	Title: Volume of a cube	
			Answer:		
Draw a	cube of sides 5 cm and calculate its volu	me.		<i>V</i> = 5×5×5	
				= 125cm ³	
				5 cm	
		3½ minutes		5 cm	
Theme:	Measurement and Estimation (M-07-087)	CODE: B 100	Theme:	Measurement and Estimation (M-07-087)	CODE: B 100
Lesson	Title: Volume of a cube		Lesson	Title: Volume of a cube	
			Answer:		
Fill in the	e blank spaces to show volume of a cub	e with sides of			
length 1	5 feet: V=x	=ft ³		V = 15×15×15 = 3375 ft³	
		2½ minutes			

Theme: Measurement and Estimation (M-07-088) CODE	B 101 Theme:	Measurement and Estimation (M-07-088) CODE: B 101
Lesson Title: Volume of a cuboids	Lesson 1	Fitle: Volume of a cuboids
	Answer:	
State the formula for the volume of a cuboid.		$V = l \times_W \times h$
1½ mi	nutes	
Theme: Measurement and Estimation (M-07-088) CODE	B 102 Theme:	Measurement and Estimation (M-07-088) CODE: B 102
Lesson Title: Volume of a cuboids	Lesson 1	Fitle: Volume of a cuboids
	Answer:	
a. Calculate the volume of the cuboid below:		V = 0 # v0 #vE # = 00 #2
	a.	$V = 9 \text{ ft } \times 2 \text{ ft} \times 5 \text{ ft} = 90 \text{ ft}^3$
5 f	t b.	$V = 4 \text{ mm} \times 3 \text{ mm} \times 6 \text{ mm} = 72 \text{ mm}^3$
24		
910		
 A cuboid measures 4mm by 3mm by 6mm. Find the volume of the cuboid. 		
3 minu	ites	
Theme: Measurement and Estimation (M-07-089) CODE:		Measurement and Estimation (M-07-089) CODE: B 103
Lesson Title: Problem solving with volumes		Title: Problem solving with volumes
	Answer:	
a. State the formula for finding the volume of cub	oid. a.	$V = l \times_W \times h$
b. State the formula for finding the volume of a c	ube. b.	$V = l^3$
1½ mi	nutos	
/2 MI		
Theme: Measurement and Estimation (M-07-089) CODE	B 104 Theme:	Measurement and Estimation (M-07-089) CODE: B 104
Theme: Measurement and Estimation (M-07-089) CODE: Lesson Title: Problem solving with volumes		Measurement and Estimation (M-07-089) CODE: B 104 Fitle: Problem solving with volumes
Lesson Title: Problem solving with volumes		
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm ² .	Lesson T Answer:	Fitle: Problem solving with volumes
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm². Calculate the volume of the box if it is 10 cm d	eep. a.	
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm ² . Calculate the volume of the box if it is 10 cm d b. A wooden cupboard is 10cm high. The volume	eep. a.	Fitle: Problem solving with volumes $V = A \times h$ $= 81 \times 10 = 810 \text{ cm}^3$
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm². Calculate the volume of the box if it is 10 cm d b. A wooden cupboard is 10cm high. The volume used to make the cupboard is 1000 cm³.	eep. a.	Fitle: Problem solving with volumes $V = A \times h$ $= 81 \times 10 = 810 \text{ cm}^3$
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm ² . Calculate the volume of the box if it is 10 cm d b. A wooden cupboard is 10cm high. The volume	eep. a.	Fitle: Problem solving with volumes $V = A \times h$
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm². Calculate the volume of the box if it is 10 cm d b. A wooden cupboard is 10cm high. The volume used to make the cupboard is 1000 cm³.	eep. a.	Fitle: Problem solving with volumes $V = A \times h$ $= 81 \times 10 = 810 \text{ cm}^3$
Lesson Title: Problem solving with volumes a. A box has a base with area 81 cm². Calculate the volume of the box if it is 10 cm d b. A wooden cupboard is 10cm high. The volume used to make the cupboard is 1000 cm³.	eep. a. eof wood b. cupboard.	Fitle: Problem solving with volumes $V = A \times h$ $= 81 \times 10 = 810 \text{ cm}^3$

Theme: Measurement and Estimation (M-07-090) CODE: B 105	Theme: Measurement and Estimation (M-07-090) CODE: B 105
Lesson Title: Volume story problems	Lesson Title: Volume story problems
	Answer:
a. What is 1 cubic unit?	a. 1 cubic unit is a measurement for volume
b. What is volume?	b. Volume is the amount of space taken up by an object
2 minutes	
Theme: Measurement and Estimation (M-07-090) CODE: B 106	Theme: Measurement and Estimation (M-07-090) CODE: B 106
Lesson Title: Volume story problems	Lesson Title: Volume story problems
	Answer:
A water tank is 12m high, 5m long and 9m wide. A solid metal box 7m high, 4m long and 8m wide is sitting at the bottom of the tank. The tank is filled with water.	It is in the shape of a rectangular prism.
What is the shape of the water tank and solid metal?	
1 minute	
Theme: Measurement and Estimation (M-07-090) CODE: B 107	Theme: Measurement and Estimation (M-07-090) CODE: B 107
Lesson Title: Volume story problems	Lesson Title: Volume story problems
	Answer:
A sea turtle house at the zoo is made by connecting two large glass tanks.	V = volume of first glass tank + volume of second glass tank
The first glass tank is 6 m long, 4 m wide and 2 m high. The	$V = (8 \times 9 \times 3) \text{ m}^3 + (6 \times 4 \times 2) \text{ m}^3$
second glass tank is 8 m long, 9 m wide and 3 m high.	
How many cubic meters of space do the sea turtles have in their	= 216m ³ +48m ³
house?	= 264 m ³
4 minutes	
Theme: Geometry (M-07-091) CODE: B 108	Theme: Geometry (M-07-091) CODE: B 108
Lesson Title: Introduction to angles	Lesson Title: Introduction to angles
	Answer:
What is an angle?	An angle is the space between two lines that cross.
	, in angle is the space between two integrated seed.
1½ minutes	

Theme: Ge	eometry (M-07-091)	CODE: B 109	Theme: Geo	ometry (M-07-091)	CODE: B 109
Lesson Title	: Introduction to angles		Lesson Title:	Introduction to angles	
B. Cl	raw 3 angles: 1 obtuse, 1 right, and assify the following degrees into obtu gle: ° ii.91° iii. 89° iv.90°	Ū		.20 ⁰ b.	c. <u>32°</u> →
		4 minutes		cute ii. Obtuse iii. Acute	-
Theme: Ge	eometry (M-07-092)	CODE: B 110	Theme: Geo	ometry (M-07-092)	CODE: B 110
Lesson Title	: Right angles		Lesson Title:	Right angles	
What are the	e units we use to measure angles?		Answer: Degrees		
		1 minute			
Theme: Ge	eometry (M-07-092)	CODE: B 111	Theme: Geo	ometry (M-07-092)	CODE: B 111
Lesson Title	: Right angles		Lesson Title:	Right angles	
	are. ch of its 4 angles. n of the four angles of the square.		Answer: 90°+90°+90°	°+90° = 180°+180° = 360	•
		2 ¹ / ₂ minutes			
Theme: Ge	eometry (M-07-093)	CODE: B 112	Theme: Geo	ometry (M-07-093)	CODE: B 112
	: Measurement of angles			Measurement of angles	
Draw an acu	ute angle and an obtuse angle. The measure of each, then measure the	em with a	Answer:	c C	Pupil's estimation = 35° Angle measure = 28° Pupil's estimation = 100° Angle measure = 110°
		4 minutes	0	G	

Theme: Geometry (M-07-094) CODE: B 113	Theme: Geometry (M-07-094) CODE: B 113
Lesson Title: Finding unknown angles in triangles	Lesson Title: Finding unknown angles in triangles
Find the unknown angles in the discoverse	Answer:
Find the unknown angles in the diagrams:	a. $x + 40^{\circ} + 90^{\circ} = 180^{\circ} \rightarrow x + 130^{\circ} = 180^{\circ}$
a) b)	$\rightarrow x = 180^{\circ} - 130^{\circ} = 50^{\circ}$
x 40°	
	b. $b + 40^{\circ} + 75^{\circ} = 180^{\circ} \rightarrow b + 115^{\circ} = 180^{\circ}$ $\rightarrow b = 180^{\circ} - 115^{\circ} = 65^{\circ}$
40° /75° b	
4 minutes	
Theme: Geometry (M-07-095) CODE: B 114	Theme: Geometry (M-07-095) CODE: B 114
Lesson Title: Find unknown angles in composite shapes	Lesson Title: Find unknown angles in composite shapes
	Answer:
Find the value or the lettered angles:	
	$M = 60^{\circ} A = 60^{\circ} + 90^{\circ} = 150^{\circ} N = 60^{\circ} + 90^{\circ} = 150^{\circ} G = 90^{\circ} O =$
	30°+90° = 120° <i>S</i> = 90°+60° = 150°
$ \leq t + \gamma $	
2½ minutes	
Theme: Geometry (M-07-095) CODE: B 115	Theme: Geometry (M-07-095) CODE: B 115
Lesson Title: Find unknown angles in composite shapes	Lesson Title: Find unknown angles in composite shapes Answer:
Find the value or the lettered angles:	$A = 50^{\circ} B = 30^{\circ} + 40^{\circ} = 70 C = 60^{\circ} D = 90^{\circ} + 90^{\circ} = 180^{\circ}$
A 50°	
0 30********	
¢	
2½ minutes	
Theme: Geometry (M-07-096) CODE: B 116	Theme: Geometry (M-07-096) CODE: B 116
Lesson Title: Intr to complementary & supplementary angles	Lesson Title: Intr to complementary & supplementary angles
	Answer:
Complete the following sentences:	
	a. Angles that add up to 90 degrees are called
a. Angles that add up to 90 degrees are called	complimentary angles.
b. Angles that add up to 180 degrees are called	b. Angles that add up to 180 degrees are called supplementary angles.
2 minutes	

Theme: Geometry (M-07-096)	CODE: B 117	Theme:	Geometry (M-07-096)	CODE: B 117
Lesson Title: Intro to complementary & supplementary	nentary angles	Lesson	Title: Intro to complementary & supple	ementary angles
Solve:		Answers	X.	
i. 1°+ 89° ii. 60°+120° iii. 79°+11° iv. 45° + 45° v. 171°+9°		i. ii. iii. iv. v.	Complementary Supplementary Complementary Complementary Supplementary	
	3½ minutes			
Theme: Geometry (M-07-097)	CODE: B 118	Theme:	Geometry (M-07-097)	CODE: B 118
Lesson Title: Complimentary angles		Lesson ⁻	Title: Complimentary angles	
Find the value of <i>a</i> in the diagram below:		Answer:	a +72° = 90° a = 90°- 72° = 18°	
	2 minutes			
Theme: Geometry (M-07-097)	CODE: B 119	Theme:	Geometry (M-07-097)	CODE: B 119
Lesson Title: Complimentary angles		Lesson Answer:	Title: Complimentary angles	
 i. If m and 54° are complementary value of angle m. ii. If y and 7° are complementary a value of angle y. 	-	i.	m = 46° y = 83°	
	2½ minutes			
Theme: Geometry (M-07-098)	CODE: B 120	Theme:	Geometry (M-07-098)	CODE: B 120
Lesson Title: Supplementary angles			Title: Supplementary angles	
 i. If <i>p</i> and 3° are supplementary angles, find the value of angle <i>p</i>. ii. If <i>s</i> and 162° are supplementary angles, find the value of angle <i>s</i>. iii. Find the missing angle <i>t</i> in the diagram: 	110°	Answer: i. ii. iii.	p = 177° s = 18° t = 70°	
	3 minutes			

Theme: Geometry (M-07-099)	CODE: B 121	Theme: Geometry (M-07-099) CODE: B 121
Lesson Title: Supplementary angles		Lesson Title: Supplementary angles
Find the values of the missing angles in the diagonal a b b b 125°	/y	Answer: a) 90°-54° = 36° b) 180°-125° = 55°
	2 ¹ / ₂ minutes	
Theme: Geometry (M-07-099)	CODE: B 122	Theme: Geometry (M-07-099) CODE: B 122
Lesson Title: Supplementary angles		Lesson Title: Supplementary angles
Consider the diagram below and complete the f a. $w + x =$ b. $z + y =$ c. $x + y =$ d. $z + w =$	following: y y y x y x y y B $3\frac{1}{2}$ minutes	Answer: a. $w + x = 180^{\circ}$ b. $z + y = 180^{\circ}$ c. $x + y = 180^{\circ}$ d. $z + w = 180^{\circ}$
Theme: Geometry (M-07-099)	CODE: B 123	Theme: Geometry (M-07-099) CODE: B 123
Lesson Title: Supplementary angles	0002.0125	Lesson Title: Supplementary angles
Consider the following equation and find the va $x + 56^\circ = 180^\circ$	lue of <i>x</i> :	Answer: $x + 56^{\circ} = 180^{\circ}$ $x = 180^{\circ} - 56^{\circ}$ $x = 124^{\circ}$
	1½ minutes	
Theme: Geometry (M-07-099)	CODE: B 124	Theme: Geometry (M-07-099) CODE: B 124
Lesson Title: Supplementary angles		Lesson Title: Supplementary angles
Find the values of the missing angles in the dial $e^{108^{\circ}}$	gram below: ➔ 3½ minutes	Answer: $e = 180^{\circ} - 108^{\circ} = 72^{\circ}$ $f = 180^{\circ} - 72^{\circ} = 108^{\circ}$ $g = 180^{\circ} - 108^{\circ} = 72^{\circ}$

Theme:	Geometry (M-07-100)	CODE: B 125	Theme:	Geometry (M-07-100)	CODE: B 125
Lesson	Title: Transversal of parallel lines			Title: Transversal of parallel lines	
Complet	e the following sentences:		Answer:		
a.	Corresponding angles on parallel lines	are	a.	Corresponding angles on parallel line	s are equal .
b.	Co-interior angles on parallel lines add	l up to	b.	Co-interior angles on parallel lines ad	d up to 180°
C.	Alternate angles on parallel lines are _		C.	Alternate angles on parallel lines are	equal.
		2½ minutes			
Theme:	Geometry (M-07-100)	CODE: B 126	Theme:	Geometry (M-07-100)	CODE: B 126
Lesson	Title: Transversal of parallel lines			Title: Transversal of parallel lines	
Cind the			Answer:		
Find the	values of the missing angles:			$m = o = q = 69^{\circ}$	
	$R \leftarrow \frac{m}{n} \xrightarrow{n} S$			and	
	$q \begin{pmatrix} r \\ r \end{pmatrix}$			$n = p = r = t = 111^{\circ}$	
	$T \leftarrow t s = 69^{\circ}$				
	γ^{\wedge}				
		3½ minutes			
Theme:	Geometry (M-07-101)	CODE: B 127	Theme:	Numbers and Numeration (M-07-047)	CODE: B B
	Geometry (M-07-101) Title: Transversal of parallel lines	CODE: B 127	Theme: Lesson		CODE: B B
Lesson	Title: Transversal of parallel lines	CODE: B 127			CODE: B B
Lesson	Title: Transversal of parallel lines	CODE: B 127	Lesson 7		CODE: B B
Lesson	Title: Transversal of parallel lines	CODE: B 127	Lesson 7		CODE: B B
Lesson Draw a d	Title: Transversal of parallel lines	CODE: B 127	Lesson 7		CODE: B B
Lesson a c Draw a c a. b.	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i>	CODE: B 127	Lesson 7	Fitle:	CODE: B B
Lesson Draw a d a.	Title: Transversal of parallel lines circle and label the following: Centre B	CODE: B 127	Lesson 7	Fitle:	CODE: B B
Lesson a c Draw a c a. b.	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i>		Lesson 7	Fitle:	CODE: B B
Lesson a c Draw a c a. b.	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i>	CODE: B 127 3 minutes	Lesson 7	Fitle:	CODE: B B
Lesson d Draw a d a. b. c. Theme:	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i>		Lesson T Answer:	Title:	CODE: B B
Lesson d Draw a d a. b. c. Theme:	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i>	3 minutes	Lesson T Answer: Theme: Lesson T	Title:	
Lesson d Draw a d a. b. c. Theme:	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i>	3 minutes	Lesson T Answer:	Title: C C B B C C B C C C B C C C C C C C C	
Lesson Draw a a. b. c. Theme: Lesson	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i>	3 minutes	Lesson T Answer: Theme: Lesson T	Title:	
Lesson Draw a a. b. c. Theme: Lesson	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i> Geometry (M-07-102) Title: Construction of triangles	3 minutes CODE: B 128	Lesson T Answer: Theme: Lesson T	Title: C C B B C C B C C C B C C C C C C C C	
Lesson Draw a a. b. c. Theme: Lesson	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i> Geometry (M-07-102) Title: Construction of triangles ct triangle <i>ABC</i> such that :	3 minutes CODE: B 128	Lesson T Answer: Theme: Lesson T	Title: C B B C B C B C C B C C C B C C C C C	
Lesson Draw a a. b. c. Theme: Lesson	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i> Geometry (M-07-102) Title: Construction of triangles ct triangle <i>ABC</i> such that :	3 minutes CODE: B 128	Lesson T Answer: Theme: Lesson T	Geometry (M-07-102) Title: Construction of triangles	
Lesson Draw a a. b. c. Theme: Lesson	Title: Transversal of parallel lines circle and label the following: Centre B Diameter <i>CD</i> Two radii <i>BE</i> and <i>BF</i> Geometry (M-07-102) Title: Construction of triangles ct triangle <i>ABC</i> such that :	3 minutes CODE: B 128	Lesson T Answer: Theme: Lesson T	Title: C C B B C C B C C C B C C C C C C C C	

Theme: Geometry (M-07-103)	CODE: B 129	Theme: Geometry (M-07-103) COL	DE: B 129
Lesson Title: Construction of parallel lines		Lesson Title: Construction of parallel lines	
Draw a vertical line AB Parallel to it, construct line CD		Answer:	
	3½ minutes		
Theme: Geometry (M-07-104)	CODE: B 130		DE: B 130
Lesson Title: Construction of perpendicular lines	3	Lesson Title: Construction of perpendicular lines Answer:	
Draw a line segment AB Construct a point C on it Construct line DE Perpendicular to AB	4 minutes		
Theme: Geometry (M-07-105)	CODE: B 131		DE: B 131
Lesson Title: Construction practise Draw a line segment \overline{QR} . Mark a point P on it. Co perpendicular to \overline{QR} .	nstruct line <i>ST</i> 4 minutes	Answer:	