Theme: Numbers and Numeration (M-07-046) **CODE: B 1**	Theme: Numbers and Numeration (M-07-046) **CODE: B 2**
Lesson Title: Introduction to ratio	Lesson Title: Introduction to ratio
What does the term '**ratio'** mean? 1½ minutes	Amadu has 5 pencils and 3 markers. Write down: i. The ratio of pencils to markers in three forms. ii. The ratio of markers to pencils in three forms. 4 minutes
Theme: Numbers and Numeration (M-07-047) **CODE: B 3**	Theme: Numbers and Numeration (M-07-048) **CODE: B 4**
Lesson Title: Ratio of the Whole	Lesson Title: Ratios and Fraction
A farmer has 50 animals on his farm. These include 15 chickens, 17 goats, 10 cows and the rest are sheep. Write: i. The ratio of sheep to cows to goats to chickens ii. The ratio of goats to sheep to cows to chickens iii. The ratio of chickens to all animals iv. The ratio of sheep to all animals 4 minutes	a. A class has 35 pupils of which there are 15 boys and 20 girls. Write the ratio of boys to girls as fraction in its lowest term. b. Mr. Bundu has 48 animals on his farm. 18 are goats and the rest are cows. Write the ratio of goats to cows as a fraction in its simplest form. 3 minutes
Theme: Numbers and Numeration (M-07-049) **CODE: B 5**	Theme: Numbers and Numeration (M-07-049) **CODE: B 6**
Lesson Title: Ratio and percent	Lesson Title: Ratio and percent
What does the term **'percent'** mean? 1½ minutes	a. Express these percent as ratios: i. 35% ii. 90% iii. 50% b. Express these ratios as percent: i. 3:25 ii. 9:20 4 minutes
Theme: Numbers and Numeration (M-07-050) **CODE: B 7**	Theme: Numbers and Numeration (M-07-051) **CODE: B8**
Lesson Title: Ratio and decimal	Lesson Title: Simplification of ratios
a. Express 400 cm: 1000 cm. as a fraction, decimal, and percentage. b. Express 45 minutes: 180 minutes as a fraction, decimal, and percentage. 3 minutes	What do we multiply by 4 to get 8? 2 minutes

Theme: Numbers and Numeration (M-07-051) **CODE: B 9**	Theme: Numbers and Numeration (M-07-052) **CODE: B 10**
Lesson Title: Simplification of ratios	Lesson Title: Ratio problems with two terms
a. Reduce 60:180 to its lowest terms. b. Find the missing number: 13:15 = 26:☐ c. Find the missing number: ☐:12 = 3:4 3 minutes	Share 120 sweets between Sia and Mariama in the ratio 7:5 2 minutes
Theme: Numbers and Numeration (M-07-052) **CODE: B 11**	Theme: Numbers and Numeration (M-07-053) **CODE: B 12**
Lesson Title: Ratio problems with two terms	Lesson Title: Ratio problems with three or more terms
a. Share 64 bananas between Christiana and Princess in the ratio 5:3 b. Divide *Le*250,000 between John and Thomas in the ratio 2:8 4 minutes	3 sisters divided 30 pineapples between them in the ratio 3:1:2. Find the total ratio 2 minutes
Theme: Numbers and Numeration (M-07-053) **CODE: B 13**	Theme: Numbers and Numeration (M-07-054) **CODE: B 14**
Lesson Title: Ratio problems with three or more terms	Lesson Title: Relating ratios to measurement
Share *Le* 60,000 among four girls: Isata, M'balu, Fatu and Hawa in the ratio 4:1:2:5. How much is each girls' share? 4 minutes	Explain what the **total ratio** means in sharing a given quantity in a given ratio. 2 minutes
Theme: Numbers and Numeration (M-07-054) **CODE: B 15**	Theme: Numbers and Numeration (M-07-055) **CODE: B 16**
Lesson Title: Relating ratios to measurement	Lesson Title: Ratio story problems
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. b. Divide a line of 20 cm in the ratio 3:2:5 3½ minutes	The ages of three girls Mabel, Alice and Finda are 12, 15 and 11 respectively. Mr. Kamara wants to share 76 exercise books among them in the ratio of their ages. Find how many exercise books each girl will get. 4 minutes

Theme: Numbers and Numeration (M-07-056) **CODE: B 17**	Theme: Numbers and Numeration (M-07-056) **CODE: B 18**
Lesson Title: Introduction to integers	Lesson Title: Introduction to integers
Complete the following sentence: All numbers greater than zero are_____, and all numbers less than zero are_____ 2 minutes	Determine whether each number is positive or negative: (a) +7 (b) -12 (c) -6 (d) 14 (e) 0 2 minutes
Theme: Numbers and Numeration (M-07-057) **CODE: B 19**	Theme: Numbers and Numeration (M-07-057) **CODE: B 20**
Lesson Title: Positive and negative integers	Lesson Title: Positive and negative integers
In which direction do we find positive integers from zero? 1½ minutes	\In which direction do we find the negative integers from zero? 1½ minutes
Theme: Numbers and Numeration (M-07-057) **CODE: B 21**	Theme: Numbers and Numeration (M-07-057) **CODE: B 22**
Lesson Title: Positive and negative integers	Lesson Title: Positive and negative integers
Is zero a positive or a negative integer? 1½ minutes	a. Write down the symbol for '**greater than'**. b. Write down the symbol for '**less than'**. 1½ minutes
Theme: Numbers and Numeration (M-07-057) **CODE: B 23**	Theme: Numbers and Numeration (M-07-057) **CODE: B 24**
Lesson Title: Positive and negative integers	Lesson Title: Positive and negative integers
Complete the following sentence: Numbers to the right on a number line are bigger than numbers to the _____. 1½ minutes	Explain why -10 is less than +10, even though both numbers are the same distance from 0. 2 minutes

Theme: Numbers and Numeration (M-07-057) **CODE: B 25**	Theme: Numbers and Numeration (M-07-059) **CODE: B 26**
Lesson Title: Positive and negative integers	Lesson Title: Addition of integers using a number line
a. List these integers in order from greatest to least: -9, 8, 15, -8, -1, 9 b. Use < or > to compare each pair of integers: (i) -30 and 8 (ii) -3 and -12 3 minutes	Draw a number line and solve: (a) −1−7 (b) 4+6 (c) −3+9 4 minutes
Theme: Numbers and Numeration (M-07-060) **CODE: B 27**	Theme: Numbers and Numeration (M-07-060) **CODE: B 28**
Lesson Title: Addition of integers	Lesson Title: Addition of integers
What is 7 plus 4? 1½ minutes	Complete the following: (a.) (−) + (−) = ☐ (b.) (+) + (+) = ☐ (c.) (+) + (−) = ☐ 2½ minutes
Theme: Numbers and Numeration (M-07-060) **CODE: B 29**	Theme: Numbers and Numeration (M-07-061) **CODE: B 30**
Lesson Title: Addition of integers	Lesson Title: Subtraction of integers
Complete the following: (a) (-5) + (-12) (b) (+17) + (-24) (c) (-31) + (+15) 4 minutes	Solve the following: (a) -3 – (-3) = (b) +3 – (+3) = (c) +3 – (-3) = 2 minutes
Theme: Numbers and Numeration (M-07-061) **CODE: B 31**	Theme: Numbers and Numeration (M-07-062) **CODE: B 32**
Lesson Title: Subtraction of integers	Lesson Title: Multiplication of numbers using number line
Simplify the following: (a) -6 – (-9) (b) 8 – (+12) (c) 3 – (-8) 4 minutes	Complete the following: (a) – x - = □ (b) + x - = □ (c) + x + = □ 2 minutes

Theme: Numbers and Numeration (M-07-062)	CODE: B 33
Lesson Title: Multiplication of numbers using number line	
Solve the following: (a) 2 x 3 (b) 2 x (-3) (c) (-2) x (-3) 2½ minutes	

Theme: Numbers and Numeration (M-07-063)	CODE: B 34
Lesson Title: Multiplication of integers	
Complete the following: positive x positive = _____ negative x negative = _____ positive x negative = _____ negative x positive = _____ 2½ minutes	

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) 2½ minutes	

Theme: Everyday Arithmetic (M-07-064)	CODE: B 36
Lesson Title: Division of integers	
Complete the following: a. positive ÷ positive = _____ b. negative ÷ negative = _____ 1½ minutes	

Theme: Everyday Arithmetic (M-07-064)	CODE: B 37
Lesson Title: Division of integers	
Simplify the following: a) (+28) ÷ (+4) b) (-49) ÷ 7 c) (-1500) ÷ (-10) d) (+550) ÷ (-11) 4 minutes	

Theme: Everyday Arithmetic (M-07-065)	CODE: B 38
Lesson Title: Story problems on integers	
What should we do in this problem? James has 28 mangos. If Mary has 10 mangos more than James, how many mangoes does Mary have? 2 minutes	

Theme: Everyday Arithmetic (M-07-065)	CODE: B 39
Lesson Title: Story problems on integers	
What should we do in this problem? Tommy has 20 coins. If his brother has 4 fewer coins, how many coins does the brother have? 2 minutes	

Theme: Everyday Arithmetic (M-07-065)	CODE: B 40
Lesson Title: Story problems on integers	
a. A bird is flying 8m. above the sea and a fish is directly below the bird. If the fish is −12m. under the sea, what is the distance between the bird and fish? b. The air temperature is 28°C and a box of frozen fish is -3°C. What is the difference in temperature between the air and the frozen fish? 4 minutes	

Theme: Everyday Arithmetic (M-07-066)	**CODE: B 41**
Lesson Title: Simple proportion	
What do you understand by the term '**proportion'**. 1½ minutes	

Theme: Everyday Arithmetic (M-07-066)	**CODE: B 42**
Lesson Title: Simple proportion	
What type of fractions are these: $\frac{1}{2} = \frac{5}{10}$ 1½ minutes	

Theme: Everyday Arithmetic (M-07-066)	**CODE: B 43**
Lesson Title: Simple proportion	
Jane ran 9 meters in 5 seconds. a. How long will she take to run 27 meters? b. How many meters will she cover in 10 seconds? 4 minutes	

Theme: Everyday Arithmetic (M-07-067)	**CODE: B 44**
Lesson Title: Simple interest	
a. Express 5% as a fraction in its lowest term. b. What is 2% of 500? 2 minutes	

Theme: Everyday Arithmetic (M-07-067)	**CODE: B 45**
Lesson Title: Simple interest	
What do you understand by the term '**principal**'? 1½ minutes	

Theme: Everyday Arithmetic (M-07-067)	**CODE: B 46**
Lesson Title: Simple interest	
Write down the symbols of the following words: a. Simple Interest b. Principal c. Rate d. Time (in years) e. Discount f. Commission 2 minutes	

Theme: Everyday Arithmetic (M-07-067)	**CODE: B 47**
Lesson Title: Simple interest	
What formula do we use to calculate the **simple interest**. 1½ minutes	

Theme: Everyday Arithmetic (M-07-067)	**CODE: B 48**
Lesson Title: Simple interest	
a. What is the interest paid on Le2500 borrowed for 3 years at a rate of 5% per annum? b. Mary invested Le22,500 for 4 years at a rate of 7% per annum. What interest did she earn? 4 minutes	

Theme: Everyday Arithmetic (M-07-068)	**CODE: B 49**
Lesson Title: Discount	
What formula do we use to calculate **discount**? 1½ minutes	

Theme: Everyday Arithmetic (M-07-068)	**CODE: B 50**
Lesson Title: Discount	
a. Find the sale price for an item that has a price tag of Le100 and a discount rate of 25%. b. A baker has a coupon that reads, 'Get $\frac{1}{3}$ off Le900 bread.' What is the discount? What is the sale price of the bread? 3½ minutes	

Theme: Everyday Arithmetic (M-07-069)	**CODE: B 51**
Lesson Title: Commission	
What do you understand by the term '**commission'**? 1½ minutes	

Theme: Everyday Arithmetic (M-07-069)	**CODE: B 52**
Lesson Title: Commission	
What formula do we use to calculate commission? 1½ minutes	

Theme: Everyday Arithmetic (M-07-069)	**CODE: B 53**
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, a pair of cufflinks for Le120,000 and a gold bracelet for Le300,000. What was Abass' commission on his total sales? 3½ minutes	

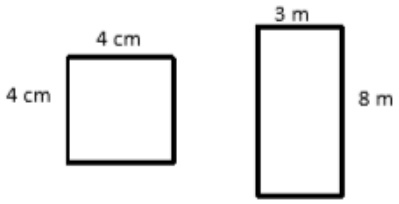
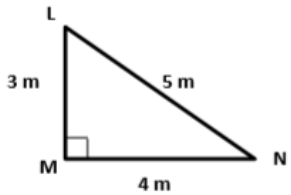
Theme: Everyday Arithmetic (M-07-070)	**CODE: B 54**
Lesson Title: Tax	
Define the term '**taxes'**. 1½ minutes	

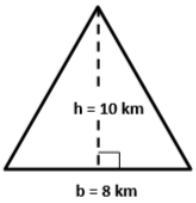
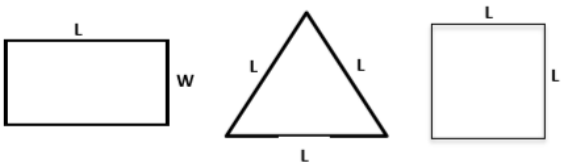
Theme: Everyday Arithmetic (M-07-070)	**CODE: B 55**
Lesson Title: Tax	
What formula do we use to calculate sales tax? 1½ minutes	

Theme: Everyday Arithmetic (M-07-070)	**CODE: B 56**
Lesson Title: Tax	
a. Joe is buying shoes at a boutique, where the sales tax is 3%. The shoes cost Le30, 000. How much is the tax? b. Moses buys a house for Le4, 000,000 and pays a tax of 6%. What is the total cost of the house? 3½ minutes	

Theme: Measurement and Estimation (M-07-071) **CODE: B 57**	Theme: Measurement and Estimation (M-07-071) **CODE: B 58**
Lesson Title: Units of measurements	Lesson Title: Units of measurements
When might we need to measure **volume**? 1½ minutes	When might we need to measure **mass**, or **weight**? 1½ minutes
Theme: Measurement and Estimation (M-07-071) **CODE: B 59**	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 minute	What is **mass**? 1½ minutes
Theme: Measurement and Estimation (M-07-071) **CODE: B 61**	Theme: Measurement and Estimation (M-07-071) **CODE: B 62**
Lesson Title: Units of measurements	Lesson Title: Units of measurements
What is **volume**? 1½ minutes	(i) List 3 items whose length can be measured. (ii) List 3 items whose mass can be measured. (iii) List 3 items whose volume can be measured. 3 minutes
Theme: Measurement and Estimation (M-07-072) **CODE: B 63**	Theme: Measurement and Estimation (M-07-071) **CODE: B 64**
Lesson Title: Conversion of length	Lesson Title: Units of measurements
a. Which is longer: 1 metre or 1 kilometre? b. Which is longer: 1 centimetre or 1 metre? 1½ minutes	(i) Name 2 units for measuring lengths (ii) Name 2 units for measuring mass (iii) Name 2 units for measuring volume 2 minutes

Theme: Measurement and Estimation (M-07-072) **CODE: B 65**	Theme: Measurement and Estimation (M-07-073) **CODE: B 66**
Lesson Title: Conversion of length	Lesson Title: Conversion of mass
a. Change 8243 mm to metres. Round your answer to one decimal place. b. Add 703cm, 956cm and 168cm. Then, express your answer in metres. 3½ minutes	a. How many millimetres in 1 centimetre? b. What is 1km in metres? c. How many centimetres in a metre? 2 minutes
Theme: Measurement and Estimation (M-07-073) **CODE: B 67**	Theme: Measurement and Estimation (M-07-073) **CODE: B 68**
Lesson Title: Conversion of mass	Lesson Title: Conversion of mass
a. Which is bigger: 1 gram or 1 kilogram? b. Which is smaller: 1 tonne or 1 milligram? 1½ minutes	a. Change 6215mg to grams. Round your answer to 2 decimal places. b. Add 574g, 603g, and 128g. Give your answer in kilograms. 3 minutes
Theme: Measurement and Estimation (M-07-074) **CODE: B 69**	Theme: Measurement and Estimation (M-07-074) **CODE: B 70**
Lesson Title: Conversion of volume	Lesson Title: Conversion of volume
Which is bigger: 1 litre or 1 millilitre? 1½ minutes	What are some things we measure with litres? 1½ minutes
Theme: Measurement and Estimation (M-07-074) **CODE: B 71**	Theme: Measurement and Estimation (M-07-075) **CODE: B 72**
Lesson Title: Conversion of volume	Lesson Title: Review of plane shapes
a. Change 419 decilitres to litres. b. Add 34ml, 1,240ml, and 829ml. Give your answer in litres. Round to the nearest litre. 3 minutes	1. Why are squares and rectangle called quadrilaterals? 2. How many sides does a triangle have? 3. Name 4 types of triangles. 3½ minutes

Theme: Measurement and Estimation (M-07-075) **CODE: B 73**	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: Rectangle EFGH, Square QRST, and Triangle ABC. 3½ minutes	Draw the following shapes: a scalene triangle ABC, an equilateral triangle DEF, an isosceles triangle RST, and a right-angled triangle XYZ. 4 minutes
Theme: Measurement and Estimation (M-07-077) **CODE: B 75**	Theme: Measurement and Estimation (M-07-077) **CODE: B 76**
Lesson Title: Area of rectangles and squares	Lesson Title: Area of rectangles and squares
What is area? 1½ minutes	a. What is the longest side of a rectangle called? b. What is the shortest side of a rectangle called? 1½ minutes
Theme: Measurement and Estimation (M-07-077) **CODE: B 77**	Theme: Measurement and Estimation (M-07-077) **CODE: B 78**
Lesson Title: Area of rectangles and squares	Lesson Title: Area of rectangles and squares
a. What is the formula to calculate the area of a square? b. What is the formula to calculate the area of a rectangle? 2 minutes	Calculate the area of these two shapes:  2½ minutes
Theme: Measurement and Estimation (M-07-078) **CODE: B 79**	Theme: Measurement and Estimation (M-07-078) **CODE: B 80**
Lesson Title: Area of triangles	Lesson Title: Area of triangles
Consider the following triangle:  a. What is the base of this triangle? b. What is the height of this triangle? 2½ minutes	What is the formula to calculate the area of a triangle? 1½ minutes

Theme: Measurement and Estimation (M-07-078) **CODE: B 81**	Theme: Measurement and Estimation (M-07-079) **CODE: B 82**
Lesson Title: Area of triangles	Lesson Title: Perimeter story problems
Find the area of this shape:  2½ minutes	Label the following shapes:  2 minutes
Theme: Measurement and Estimation (M-07-079) **CODE: B 83**	Theme: Measurement and Estimation (M-07-080) **CODE: B 84**
Lesson Title: Perimeter story problems	Lesson Title: Area story problems
Mr. Bangura wants to build a fence around his house. His yard is 40 metres long and 30 metres wide. How long will the fence be? 2½ minutes	A Farmer wants to find the area of his farm so that he can buy fertilizer for his crops. His farm is 150 m long and 80 m wide. What is the area of his farm? If one container of fertilizer covers 1000 square meters, how many containers of fertilizer will the farmer need? 2½ minutes
Theme: Measurement and Estimation (M-07-081) **CODE: B 85**	Theme: Measurement and Estimation (M-07-081) **CODE: B 86**
Lesson Title: Circles	Lesson Title: Circles
Explain the meaning of the following terms: a. Centre b. Circumference c. Radius d. Diameter 3½ minutes	a. Sketch a circle with radius 7 m. What is the diameter? b. Sketch a circle with diameter 42 m. What is the radius? 2½ minutes
Theme: Measurement and Estimation (M-07-082) **CODE: B 87**	Theme: Measurement and Estimation (M-07-083) **CODE: B 88**
Lesson Title: Circumference of circles	Lesson Title: Area of circles
a. What is the circumference of a circle with radius 21 cm? (Use $\frac{22}{7}$ for the value of π). b. What is the circumference of a circle with diameter 56 in? (Use $\frac{22}{7}$ for the value of π). 3½ minutes	What is the formula to calculate the area of a circle? 1½ minutes

Theme: Measurement and Estimation (M-07-083) **CODE: B 89**

Lesson Title: Area of circles

a. Find the area of a circle of radius 8 cm

b. Find the area of a circle of radius 12 cm

3½ minutes

Theme: Measurement and Estimation (M-07-084) **CODE: B 90**

Lesson Title: Problem solving with circles

What is circumference?

1½ minutes

Theme: Measurement and Estimation (M-07-084) **CODE: B 91**

Lesson Title: Problem solving with circles

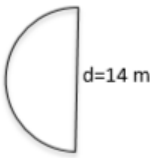
What is a semi-circle?

1½ minutes

Theme: Measurement and Estimation (M-07-084) **CODE: B 92**

Lesson Title: Problem solving with circles

Consider the following figure:



What is the radius of this semi-circle?

1½ minutes

Theme: Measurement and Estimation (M-07-084) **CODE: B 93**

Lesson Title: Problem solving with circles

Solve:

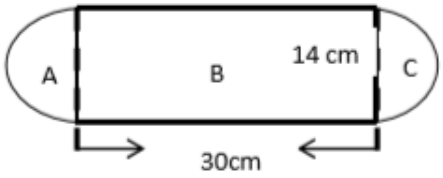
A semi-circle has a diameter of 28cm.
What is the area? (use $\pi = \frac{22}{7}$)

3 minutes

Theme: Measurement and Estimation (M-07-084) **CODE: B 94**

Lesson Title: Problem solving with circles

Calculate the area of the shape below (use $\pi = \frac{22}{7}$).



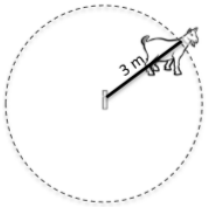
4½ minutes

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 π = 3.14)

b. A circular mat has a radius of 2 m. Calculate the area of the mat. (Use π = 3.14)



4 minutes

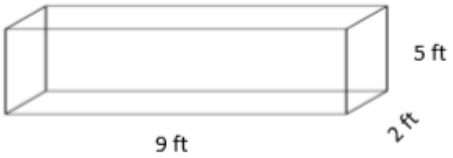
Theme: Measurement and Estimation (M-07-086) **CODE: B 96**

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?

2½ minutes

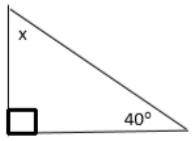
Theme: Measurement and Estimation (M-07-086) **CODE: B 97**	Theme: Measurement and Estimation (M-07-087) **CODE: B 98**
Lesson Title: Volume of solids	Lesson Title: Volume of a cube
a. Draw a rectangular prism with height 5m length 3m and width 2m b. What units will the volume be in? 3 minutes	a. State the formula of the volume of a rectangular solid. b. If the unit is feet, what will the unit for volume be? 2 minutes
Theme: Measurement and Estimation (M-07-087) **CODE: B 99**	Theme: Measurement and Estimation (M-07-087) **CODE: B 100**
Lesson Title: Volume of a cube	Lesson Title: Volume of a cube
Draw a cube of sides 5 cm and calculate its volume. 3½ minutes	Fill in the blank spaces to show volume of a cube with sides of length 15 feet: V= _____x _____x_____ = _____ft^3 2½ minutes
Theme: Measurement and Estimation (M-07-088) **CODE: B 101**	Theme: Measurement and Estimation (M-07-088) **CODE: B 102**
Lesson Title: Volume of a cuboids	Lesson Title: Volume of a cuboids
State the formula for the volume of a cuboid. 1½ minutes	a. Calculate the volume of the cuboid below:  b. A cuboid measures 4mm by 3mm by 6mm. Find the volume of the cuboid. 3 minutes
Theme: Measurement and Estimation (M-07-089) **CODE: B 103**	Theme: Measurement and Estimation (M-07-089) **CODE: B 104**
Lesson Title: Problem solving with volumes	Lesson Title: Problem solving with volumes
a. State the formula for finding the volume of cuboid. b. State the formula for finding the volume of a cube. 1½ minutes	a. A box has a base with area 81 cm^2. Calculate the volume of the box if it is 10 cm deep. b. A wooden cupboard is 10cm high. The volume of wood used to make the cupboard is 1000 cm^3. Calculate the area of the base of the wooden cupboard. 3½ minutes

Theme: Measurement and Estimation (M-07-090) **CODE: B 105**	Theme: Measurement and Estimation (M-07-090) **CODE: B 106**
Lesson Title: Volume story problems	Lesson Title: Volume story problems
a. What is 1 cubic unit? b. What is volume? 2 minutes	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. What is the shape of the water tank and solid metal? 1 minute
Theme: Measurement and Estimation (M-07-090) **CODE: B 107**	Theme: Geometry (M-07-091) **CODE: B 108**
Lesson Title: Volume story problems	Lesson Title: Introduction to angles
A sea turtle house at the zoo is made by connecting two large glass tanks. The first glass tank is 6 m long, 4 m wide and 2 m high. The 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 house? 4 minutes	What is an angle? 1½ minutes
Theme: Geometry (M-07-091) **CODE: B 109**	Theme: Geometry (M-07-092) **CODE: B 110**
Lesson Title: Introduction to angles	Lesson Title: Right angles
A. Draw 3 angles: 1 obtuse, 1 right, and 1 acute angle. B. Classify the following degrees into obtuse, right or acute angle: i.1° ii.91° iii. 89° iv.90° v.179° 4 minutes	What are the units we use to measure angles? 1 minute
Theme: Geometry (M-07-092) **CODE: B 111**	Theme: Geometry (M-07-093) **CODE: B 112**
Lesson Title: Right angles	Lesson Title: Measurement of angles
Draw a square. Measure each of its 4 angles. Find the sum of the four angles of the square. 2½ minutes	Draw an acute angle and an obtuse angle. Estimate the measure of each, then measure them with a protractor. 4 minutes

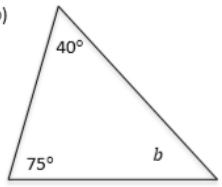
Theme: Geometry (M-07-094)	CODE: B 113
Lesson Title: Finding unknown angles in triangles	

Find the unknown angles in the diagrams:

a)



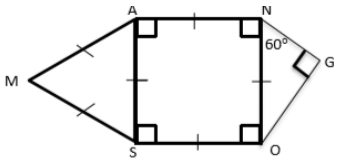
b)



4 minutes

Theme: Geometry (M-07-095)	CODE: B 114
Lesson Title: Find unknown angles in composite shapes	

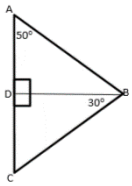
Find the value or the lettered angles:



2½ minutes

Theme: Geometry (M-07-095)	CODE: B 115
Lesson Title: Find unknown angles in composite shapes	

Find the value or the lettered angles:



2½ minutes

Theme: Geometry (M-07-096)	CODE: B 116
Lesson Title: Intr to complementary & supplementary angles	

Complete the following sentences:

a. Angles that add up to 90 degrees are called _____.
b. Angles that add up to 180 degrees are called _____.

2 minutes

Theme: Geometry (M-07-096)	CODE: B 117
Lesson Title: Intro to complementary & supplementary angles	

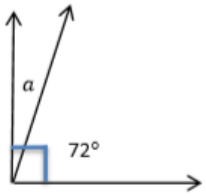
Solve:

i. 1°+ 89°
ii. 60°+120°
iii. 79 °+11°
iv. 45° + 45°
v. 171°+9°

3½ minutes

Theme: Geometry (M-07-097)	CODE: B 118
Lesson Title: Complimentary angles	

Find the value of *a* in the diagram below:



2 minutes

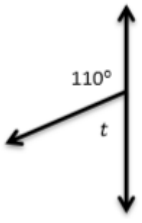
Theme: Geometry (M-07-097)	CODE: B 119
Lesson Title: Complimentary angles	

i. If m and 54° are complementary angles, find the value of angle m.
ii. If y and 7° are complementary angles, find the value of angle y.

2½ minutes

Theme: Geometry (M-07-098)	CODE: B 120
Lesson Title: Supplementary angles	

i. If p and 3° are supplementary angles, find the value of angle p.
ii. If s and 162° are supplementary angles, find the value of angle s.
iii. Find the missing angle *t* in the diagram:

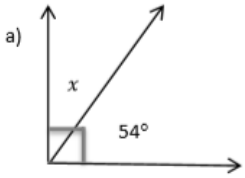


3 minutes

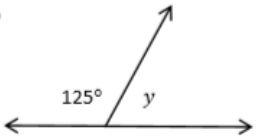
Theme: Geometry (M-07-099)	CODE: B 121
Lesson Title: Supplementary angles	

Find the values of the missing angles in the diagrams below:

a)



b)

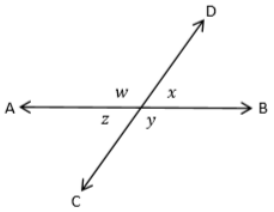


2½ minutes

Theme: Geometry (M-07-099)	CODE: B 122
Lesson Title: Supplementary angles	

Consider the diagram below and complete the following:

a. $w + x =$
b. $z + y =$
c. $x + y =$
d. $z + w =$



3½ minutes

Theme: Geometry (M-07-099)	CODE: B 123
Lesson Title: Supplementary angles	

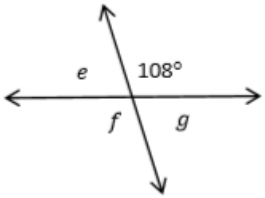
Consider the following equation and find the value of *x*:

$x + 56° = 180°$

1½ minutes

Theme: Geometry (M-07-099)	CODE: B 124
Lesson Title: Supplementary angles	

Find the values of the missing angles in the diagram below:



3½ minutes

Theme: Geometry (M-07-100)	CODE: B 125
Lesson Title: Transversal of parallel lines	

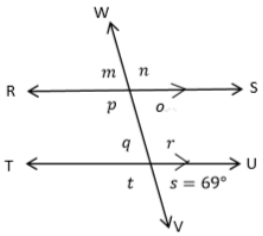
Complete the following sentences:

a. Corresponding angles on parallel lines are _____
b. Co-interior angles on parallel lines add up to _____
c. Alternate angles on parallel lines are _____

2½ minutes

Theme: Geometry (M-07-100)	CODE: B 126
Lesson Title: Transversal of parallel lines	

Find the values of the missing angles:



3½ minutes

Theme: Geometry (M-07-101)	CODE: B 127
Lesson Title: Transversal of parallel lines	

Draw a circle and label the following:

a. Centre B
b. Diameter CD
c. Two radii BE and BF

3 minutes

Theme: Geometry (M-07-102)	CODE: B 128
Lesson Title: Construction of triangles	

Construct triangle ***ABC*** such that :

$\overline{AB} = 5$ cm, $\overline{BC} = 6$ cm and $\overline{AC} = 7$ cm

3½ minutes

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