Theme: Everyday Arithmetic (M-08-056) CODE B1	Theme: Everyday Arithmetic (M-08-056) CODE B1
Lesson Title: Personal Expenditure	Lesson Title: Personal Expenditure
140 111	Answer:
What is income?	An <b>income</b> is the money you receive, usually when you are paid to do work.
1 minute	
Therese Francisco Arithmetic (M. 00 0FC), CODE D2	Therese From Jos. Arithmetic (M. 00 050). CORE P2
Theme: Everyday Arithmetic (M-08-056) CODE B2  Lesson Title: Personal Expenditure	Theme: Everyday Arithmetic (M-08-056) CODE B2  Lesson Title: Personal Expenditure
Lesson Title. Fersonal Experiature	Answer:
What is a personal expenditure?	Allower.
	A <b>personal expenditure</b> is the amount of money you spend
	yourself. Some personal expenditures are food, clothing, and
	entertainment.
1 minute	
Theme: Everyday Arithmetic (M-08-056) CODE B3	Theme: Everyday Arithmetic (M-08-056) CODE B3
Lesson Title: Personal Expenditure	Lesson Title: Personal Expenditure  Answer:
Write down the formula for calculating	Allowel.
Percentage of income	Percentage of income = $\frac{\text{expenditure}}{\text{income}} \times 100\%$
	income
1 minute	TI
Theme: Everyday Arithmetic (M-08-056) CODE B4	Theme: Everyday Arithmetic (M-08-056) CODE B4
Lesson Title: Personal Expenditure	Lesson Title: Personal Expenditure  Answer:
Mohamed earns Le 8,000,000.00 each month. He spends Le	
400,000.00 each month on electricity. What percentage of	Percentage of Income = $\frac{\text{Expenditure}}{\text{Income}} \times 100\%$
his income does he spend on electricity?	$= \frac{\frac{10000}{400,000}}{\frac{400,000}{8,000,000}} \times 100\%$
	$=\frac{4}{80}\times 100\%$
	$=\frac{1}{20} \times 100\%$
	= 5%
3 minutes	

Theme: Everyday Arithmetic (M-08-057) CODE B5	Theme: Everyday Arithmetic (M-08-057) CODE B5
Lesson Title: Income Tax	Lesson Title: Income Tax
	Answer:
What are taxes?	Tanana ana hanna annanantaniana manantananan anahiin
	Taxes are how a government raises money to cover public
	costs. For example, tax money pays for hospitals, roads, and schools.
	SCHOOLS.
	Furthermore, <b>income tax</b> is an amount that people pay from
	the money they earn working.
	, ,
1 minute	
Theme: Everyday Arithmetic (M-08-057) CODE B6	Theme: Everyday Arithmetic (M-08-057) CODE B6
Lesson Title: Income Tax	Lesson Title: Income Tax
	Answer:
Write down the formula for calculating income tax	
	Income tax = income × tax rate
	When the metals are a second
	Where, <b>tax rate</b> is given as a percentage.
	For example, $10\% = \frac{10}{100}$
1 minute	
Theme: Everyday Arithmetic (M-08-057) CODE B7	Theme: Everyday Arithmetic (M-08-057) CODE B7
Theme: Everyday Arithmetic (M-08-057) CODE B7 Lesson Title: Income Tax	Theme: Everyday Arithmetic (M-08-057) CODE B7 Lesson Title: Income Tax
Lesson Title: Income Tax	Lesson Title: Income Tax Answer:
	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction.
Solve the following word problem:	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction. $12\% = \frac{12}{12}$
Lesson Title: Income Tax  Solve the following word problem:  Martin's income is Le 14,500,000.00 per year.	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction.
Lesson Title: Income Tax  Solve the following word problem:  Martin's income is Le 14,500,000.00 per year.  His income tax rate is 12%. How much income tax must he	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction. $12\% = \frac{12}{100}$
Lesson Title: Income Tax  Solve the following word problem:  Martin's income is Le 14,500,000.00 per year.	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction. $12\% = \frac{12}{100}$ Step 2: Calculate income tax.  Income tax = income × tax rate
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Lesson Title: Income Tax  Solve the following word problem:  Martin's income is Le 14,500,000.00 per year.  His income tax rate is 12%. How much income tax must he pay for one year?	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction. $12\% = \frac{12}{100}$ Step 2: Calculate income tax.  Income tax = income × tax rate  = 14,500,000.00 × $\frac{12}{100}$ = 145,000 × 12
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Lesson Title: Income Tax  Solve the following word problem:  Martin's income is Le 14,500,000.00 per year. His income tax rate is 12%. How much income tax must he pay for one year?  4 minutes  Theme: Everyday Arithmetic (M-08-058) CODE B8  Lesson Title: Sales Tax	Lesson Title: Income Tax  Answer:  Step 1: Convert tax rate into fraction. $12\% = \frac{12}{100}$ Step 2: Calculate income tax. Income tax = income × tax rate $= 14,500,000.00 \times \frac{12}{100}$ $= 145,000 \times 12$ $= 1,740,000$ Martin will pay Le 1,740,000.00 in income tax for 1 year.  Theme: Everyday Arithmetic (M-08-058) CODE B8
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Theme: Everyday Arithmetic (M-08-058) CODE B9	Theme: Everyday Arithmetic (M-08-058) CODE B9
Lesson Title: Sales Tax	Lesson Title: Sales Tax
	Answer:
Write down the formula for calculating sales tax	
Ŭ	Sales tax = cost of the item × tax rate
1 minute	
i illiliate	
Theme: Everyday Arithmetic (M-08-059) CODE B10	Theme: Everyday Arithmetic (M-08-059) CODE B10
Lesson Title: Time and Duration	Lesson Title: Time and Duration
	Answer:
Convert the following times to the <b>12-hour</b> clock:	
	1. 05:00 = <b>5 am</b>
1. 05:00	
2. 16:00	2. Subtract 12 from the hours: 16 – 12 = <b>4 pm</b>
2 minutes	
Theme: Everyday Arithmetic (M-08-059) CODE B11	Theme: Everyday Arithmetic (M-08-059) CODE B11
Theme: Everyday Arithmetic (M-08-059) CODE B11  Lesson Title: Time and Duration	Theme: Everyday Arithmetic (M-08-059) CODE B11  Lesson Title: Time and Duration
	Lesson Title: Time and Duration
Lesson Title: Time and Duration	Lesson Title: Time and Duration
Lesson Title: Time and Duration	Lesson Title: Time and Duration Answer:
Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and	Lesson Title: Time and Duration  Answer:  Add the hours and minutes separately:
Lesson Title: Time and Duration  Solve the following word problem:	Lesson Title: Time and Duration  Answer:  Add the hours and minutes separately:  9:00 am + 3:30 = 12:30 pm
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Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and 30 minutes. At what time did she finish working?  2 minutes  Theme: Everyday Arithmetic (M-08-060) CODE B12	Lesson Title: Time and Duration  Answer:  Add the hours and minutes separately: 9:00 am + 3:30 = 12:30 pm  She finished working at 12:30 pm  Theme: Everyday Arithmetic (M-08-060) CODE B12 Lesson Title: Classification of Decimal Numbers
Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and 30 minutes. At what time did she finish working?  2 minutes  Theme: Everyday Arithmetic (M-08-060) CODE B12  Lesson Title: Classification of Decimal Numbers	Lesson Title: Time and Duration  Answer:  Add the hours and minutes separately: 9:00 am + 3:30 = 12:30 pm  She finished working at 12:30 pm  Theme: Everyday Arithmetic (M-08-060) CODE B12 Lesson Title: Classification of Decimal Numbers  Answer:
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Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and 30 minutes. At what time did she finish working?  2 minutes  Theme: Everyday Arithmetic (M-08-060) CODE B12  Lesson Title: Classification of Decimal Numbers  Solve the following word problem:	Lesson Title: Time and Duration  Answer:  Add the hours and minutes separately: 9:00 am + 3:30 = 12:30 pm  She finished working at 12:30 pm  Theme: Everyday Arithmetic (M-08-060) CODE B12 Lesson Title: Classification of Decimal Numbers  Answer: Ama had two sessions
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Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and 30 minutes. At what time did she finish working?  2 minutes  Theme: Everyday Arithmetic (M-08-060) CODE B12  Lesson Title: Classification of Decimal Numbers  Solve the following word problem:  Ama has a maths exam tomorrow. She studied in the morning from 7 am to 8:30 am. She studied again in the	Answer:  Add the hours and minutes separately: 9:00 am + 3:30 = 12:30 pm  She finished working at 12:30 pm  Theme: Everyday Arithmetic (M-08-060) CODE B12 Lesson Title: Classification of Decimal Numbers  Answer: Ama had two sessions  Time spent studying in the morning: 7:00 - 8:30 = 1:30. She spent 1 hour and 30 minutes.  Time spent studying in the afternoon: 2:30 - 3:15 = 0:45. She spent 45 minutes.
Lesson Title: Time and Duration  Solve the following word problem:  Fatu started working at 9:00 am. She worked for 3 hours and 30 minutes. At what time did she finish working?  2 minutes  Theme: Everyday Arithmetic (M-08-060) CODE B12  Lesson Title: Classification of Decimal Numbers  Solve the following word problem:  Ama has a maths exam tomorrow. She studied in the	Answer:  Add the hours and minutes separately: 9:00 am + 3:30 = 12:30 pm  She finished working at 12:30 pm  Theme: Everyday Arithmetic (M-08-060) CODE B12  Lesson Title: Classification of Decimal Numbers  Answer: Ama had two sessions  Time spent studying in the morning: 7:00 - 8:30 = 1:30. She spent 1 hour and 30 minutes.  Time spent studying in the afternoon: 2:30 - 3:15 = 0:45. She spent 45 minutes.  Total time spent studying: 1 hour 30 minutes + 45 minutes
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Theme: Measurement and Estimation (M-08-061) CODE B13	Theme: Measurement and Estimation (M-08-061) CODE B13
Lesson Title: Perimeter and Area of Rectangles and Squares	Lesson Title: Perimeter and Area of Rectangles and Squares
Define area and perimeter.	<ul> <li>Answer:</li> <li>Area is the size of the space inside of a shape.</li> <li>Perimeter is the total length around a shape.</li> </ul>
1½ minutes	
Theme: Measurement and Estimation (M-08-061) CODE B14	Theme: Measurement and Estimation (M-08-061) CODE B14
Lesson Title: Perimeter and Area of Rectangles and Squares	Lesson Title: Perimeter and Area of Rectangles and Squares
Write down the formulas for calculating the <b>Perimeter</b> and <b>Area</b> of:	Answer:
	Shape Perimeter Area
1. a square	Square $P = l + l + l + l = 4l$ $A = l \times l = l^2$
2. a rectangle	Rectangle $P = l + l + w + w = 2l + A = l \times w$
2½ minutes	Where: $l = length$ $w = width$
Theme: Measurement and Estimation (M-08-061) CODE B15	Theme: Measurement and Estimation (M-08-061) CODE B15
Lesson Title: Perimeter and Area of Rectangles and Squares	Lesson Title: Perimeter and Area of Rectangles and Squares Answer:
Find the <b>perimeter</b> and <b>area</b> of a <b>square</b> with sides of 14 cm.	1. perimeter: $P = l + l + l + l = 4l$ = 14 + 14 + 14 + 14 = 4(14) = 56 cm 2. area: $A = l \times l = l^2$ = 14 × 14 = 14 <sup>2</sup> = 196 cm <sup>2</sup>
Theme: Measurement and Estimation (M-08-061) CODE B16	Theme: Measurement and Estimation (M-08-061) CODE B16
Lesson Title: Perimeter and Area of Rectangles and Squares  Find the <b>perimeter</b> and <b>area</b> of a <b>rectangle</b> with a length of 5 metres and a width of 3 metres.	Lesson Title: Perimeter and Area of Rectangles and Squares  Answer:  1. <b>perimeter:</b> $P = l + l + w + w = 2l + 2w$ $= 5 + 5 + 3 + 3$ $= 2(5) + 2(3)$ $= 10 + 6$ $= 16 \text{ m}$
4 minutes	2. <b>area</b> : $A = l \times w$ = 5 × 3 = 15 m <sup>2</sup>

Theme: Measurement and Estimation (M-08-062) CODE B17	Theme: Measure	ment and Estimation (M-08-06	2) <b>CODE B17</b>
Lesson Title: Perimeter and Area of Parallelograms	Lesson Title: Perir	neter and Area of Parallelo	grams
	Answer:		
Define a <b>parallelogram</b> .			
		n is a four-sided plane	figure with opposite
	sides parallel.		
	The following sh	apes are all types of para	allelograms:
			<b>***</b>
			<b>*</b>
1 minuto	Rectangle	Square Rhombus	Parallelogram
Theme: Measurement and Estimation (M-08-062) CODE B18	Thomas Magasira	ment and Fatimation (M 00 06	2) <b>CODE B18</b>
Theme: Measurement and Estimation (M-08-062) CODE B18  Lesson Title: Perimeter and Area of Parallelograms		ment and Estimation (M-08-06 neter and Area of Parallelo	,
Lesson Title. I enimeter and Area of Faranelograms	Answer:	neter and Area of Farancio	grams
Write down the formulas for calculating the <b>perimeter</b> and	Shape	Perimeter	Area
area of:	Parallelogram	P = l + l + w + w	$A = b \times h$
		=2l+2w	
1 parallalogram	Rectangles	P = l + l + l + l = 4l	$A = \frac{1}{2}(d_1 \times d_2)$
parallelogram     rhombus		l	
Z. Hombus	Where: b = base	)	
	h = heiç	ght	
	d <sub>1</sub> and	d <sub>2</sub> = diagonals are lines	
2 minutes		opposite angle	es.
Theme: Measurement and Estimation (M-08-062) CODE B19	Theme: Measure	ment and Estimation (M-08-06	2) <b>CODE B19</b>
			<u> </u>
Lesson Title: Perimeter and Area of Parallelograms	Lesson Title: Perir	neter and Area of Parallelo	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms			<u> </u>
	Lesson Title: Perir Answer:	neter and Area of Parallelo	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms	Lesson Title: Perir Answer:  1. perimeter: P	neter and Area of Parallelo	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir Answer:  1. perimeter: P	neter and Area of Parallelo $_{l}^{0}$	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir Answer:  1. perimeter: P	neter and Area of Parallelon = 2 <i>l</i> + 2 <i>w</i> = 2 × 4 m + 2 × 3 m = 8 m + 6 m = 14 m	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir Answer:  1. perimeter: P  = 2. area: $A = b \times a$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir Answer:  1. perimeter: P ====================================	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $n \times 2.5 \text{ m}$	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir Answer:  1. perimeter: P  = 2. area: $A = b \times a$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $n \times 2.5 \text{ m}$	<u> </u>
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3 m.	Lesson Title: Perir Answer:  1. perimeter: P ====================================	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $n \times 2.5 \text{ m}$	<u> </u>
Lesson Title: Perimeter and Area of Parallelograms  Find the perimeter and area of the parallelogram:	Lesson Title: Perir  Answer:  1. perimeter: <i>P</i> =  2. area: <i>A</i> = <i>b</i> ×  = 4 r  = 10	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $n \times 2.5 \text{ m}$	grams
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3 m.  3½ minutes	Lesson Title: Perir Answer:  1. perimeter: P  = = = = = = = = = = = = = = = = = =	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 m + 2 \times 3 m$ $= 8 m + 6 m$ $= 14 m$ $h$ $n \times 2.5 m$ $m^{2}$	grams  2) CODE B20
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms	Lesson Title: Perir Answer:  1. perimeter: P  = = = = = = = = = = = = = = = = = =	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^{2}$ ment and Estimation (M-08-06)	grams  2) CODE B20
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and	Lesson Title: Perir Answer:  1. perimeter: P ====================================	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ The net and Estimation (M-08-06) and the neter and Area of Parallelon)	grams  2) CODE B20
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms	Lesson Title: Perir Answer:  1. perimeter: P  = = = = = = = = = = = = = = = = = =	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ The net and Estimation (M-08-06) and the neter and Area of Parallelon)	grams  2) CODE B20
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:	Lesson Title: Perir Answer:  1. perimeter: $P$ = 2. area: $A = b \times = 4 \text{ r}$ = 10  Theme: Measure: Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ The net and Estimation (M-08-06) and the neter and Area of Parallelon)	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  4 m.  2.5 m.  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times 4 = 10$ Theme: Measured Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ Then and Estimation (M-08-06) and the and Area of Parallelon $(d_1 \times d_2)$ $(d_1 \times d_3)$ Substitute values and Area of Parallelon $(d_1 \times d_3)$ Substitute values and Area of Parallelon	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:  1. The area of the rhombus	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times 4 = 10$ Theme: Measured Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$ $A = \frac{1}{2}$ $A = \frac{1}{2}$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ ment and Estimation (M-08-06) $\text{neter and Area of Parallelon}$ $(d_1 \times d_2)$ $4 \times 3) \qquad \text{Substitute } v_1(12)$	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:  1. The area of the rhombus	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times 4 = 10$ Theme: Measure Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $m \times 2.5 \text{ m}$ $m^2$ Then and Estimation (M-08-06) $\text{neter and Area of Parallelon}$ $(d_1 \times d_2)$ $(4 \times 3) \qquad \text{Substitute } v$ $(12)$ $cm^2$	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:  1. The area of the rhombus	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times 4 = 10$ Theme: Measured Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $m \times 2.5 \text{ m}$ $m^2$ Then and Estimation (M-08-06) $\text{neter and Area of Parallelon}$ $(d_1 \times d_2)$ $(4 \times 3) \qquad \text{Substitute } v$ $(12)$ $cm^2$	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:  1. The area of the rhombus	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times = 4 \text{ r}$ = 10  Theme: Measure Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$ $= \frac{1}{2}$ $= \frac{1}{2}$ $= \frac{1}{2}$ 2. perimeter: $P$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $\text{n} \times 2.5 \text{ m}$ $\text{m}^2$ ment and Estimation (M-08-06) $\text{neter and Area of Parallelon}$ $(d_1 \times d_2)$ $4 \times 3) \qquad \text{Substitute } v$ $(12)$ $\text{cm}^2$ $= 4l$	grams  2) CODE B20 grams
Find the perimeter and area of the parallelogram:  3½ minutes  Theme: Measurement and Estimation (M-08-062) CODE B20  Lesson Title: Perimeter and Area of Parallelograms  A rhombus has sides of 5 cm and diagonals of 4 cm and 3 cm. Find:  1. The area of the rhombus	Lesson Title: Perir Answer:  1. perimeter: $P$ 2. area: $A = b \times = 4 \text{ r}$ = 10  Theme: Measure Lesson Title: Perir Answer:  1. area: $A = \frac{1}{2}$ $= \frac{1}{2}$ $= \frac{1}{2}$ $= \frac{1}{2}$ 2. perimeter: $P$	neter and Area of Parallelon $= 2l + 2w$ $= 2 \times 4 \text{ m} + 2 \times 3 \text{ m}$ $= 8 \text{ m} + 6 \text{ m}$ $= 14 \text{ m}$ $h$ $m \times 2.5 \text{ m}$ $m^2$ ment and Estimation (M-08-06) neter and Area of Parallelon $(d_1 \times d_2)$ $4 \times 3) \qquad \text{Substitute } v$ $(12)$ $cm^2$ $= 4l$ $= 4 \times 5 \text{ cm}$	grams  2) CODE B20 grams

Theme: Measurement and Estimation (M-08-063) CODE B21	Theme: Measurement and Estimation (M-08-063) CODE B21
Lesson Title: Perimeter and Area of Trapeziums	Lesson Title: Perimeter and Area of Trapeziums
	Answer:
Define a <b>trapezium</b> .	A <b>trapezium</b> is a quadrilateral with 2 parallel sides. The other 2 sides are not parallel.
1 minute	
Theme: Measurement and Estimation (M-08-063) CODE B22	Theme: Measurement and Estimation (M-08-063) CODE B22
Lesson Title: Perimeter and Area of Trapeziums	Lesson Title: Perimeter and Area of Trapeziums
Write down the formulas for calculating the <b>perimeter</b> and	Answer:
area of a trapezium:	Shape Perimeter Area
	Trapezium $P = a + b + c + d$ $A = \frac{1}{2}(a + b)h$
2 minutes	

Theme: Measurement and Estimation (M-08-063) CODE B23	Theme: Measurement and Estimation (M-08-063) CODE B23
Lesson Title: Perimeter and Area of Trapeziums	Lesson Title: Perimeter and Area of Trapeziums
Find the <b>perimeter</b> and <b>area</b> of the <b>trapezium</b> below:	Answer:  1. <b>perimeter:</b> add all the lengths of sides $P = a + b + c + d$ $= 50 + 36 + 41 + 80$ $= 207 \text{ mm}$ 2. <b>area:</b> $A = \frac{1}{2}(a + b)h$ $= \frac{1}{2}(50 + 80)34$ $= 2210 \text{ mm}^2$
Theme: Measurement and Estimation (M-08-064) CODE B24	Theme: Measurement and Estimation (M-08-064) CODE B24
Lesson Title: Perimeter and Area of Triangles	Lesson Title: Perimeter and Area of Triangles
Write down the formulas for calculating the <b>perimeter</b> and	Answer:
area of a triangle:	Shape Perimeter Area
	Triangle $P = a + b + c$ $A = \frac{1}{2} \times b \times h$
2 minutes	

Theme: Measurement and Estimation (M-08-064) CODE B25	Theme: Measuremen	nt and Estimation (M-0	08-064) <b>CODE B25</b>
Lesson Title: Perimeter and Area of Triangles	Lesson Title: Perimet		
	Answer:		
Find the area and perimeter of the triangle:	<b>1.</b> area: A = $\frac{1}{2}$ × b	$0 \times h$	
		14 Substitut	o values
1			e values
	$=\frac{1}{2}\times(112)$	Simplify	
\$ # I∰	= 56 cm <sup>2</sup>		
7 13			
8 cm	2. <b>perimeter:</b> add	-	sides
0 0111		+ b + c	
21/ minutos	=	16 + 15 + 8 = 39 (	cm
Theme: Measurement and Estimation (M-08-065) CODE B26	Theme: Measuremer	nt and Estimation (M-	08-065) <b>CODE B26</b>
Lesson Title: Perimeter and Area of Circles	Lesson Title: Perimet		
	Answer:		
Write down the formulas for calculating the circumference			
and area of a circle:	Shape	Circumference	Area
	Circle	C = 2πr	A = πr <sup>2</sup>
	Where: r = radius o	f the Circle	
	$\pi = \frac{22}{7}$		
2 minutes			
Theme: Measurement and Estimation (M-08-065) CODE B27	Theme: Measuremer	nt and Estimation (M-	08-065) <b>CODE B27</b>
Lesson Title: Perimeter and Area of Circles	Lesson Title: Perimet	er and Area of Circ	es
	Answer:		
Find the circumference and area of the circle,	1. circumference:		
using $\pi = \frac{22}{7}$		$=2\times28\times\frac{22}{7}$	Substitute values
		= 176 m	
	<b>2. area:</b> $A = \pi r^2$		
28 m	1 22		
and the second s	$=\frac{22}{7}\times 2$	$88^2$	Substitute values
	,		
	$=\frac{22}{7}\times 7$	<b>'</b> 84	Simplify
	$= \frac{22}{7} \times 7$ $= 22 \times 1$	/84 112	
3 minutes	$= \frac{22}{7} \times 7$ = 22 × 1 = 2464 r	/84 112 n <sup>2</sup>	Simplify Cancel 7
Theme: Measurement and Estimation (M-08-066) CODE B28	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement	784 112 n <sup>2</sup> nt and Estimation (M-0	Simplify Cancel 7  08-066) CODE B28
	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet	784 112 n <sup>2</sup> nt and Estimation (M-0	Simplify Cancel 7  08-066) CODE B28
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement	784 112 n <sup>2</sup> nt and Estimation (M-0	Simplify Cancel 7  08-066) CODE B28
Theme: Measurement and Estimation (M-08-066) CODE B28	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:	784 112 n <sup>2</sup> nt and Estimation (M-t er and Area of Com	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shape:	184 112 n <sup>2</sup> nt and Estimation (M-cer and Area of Com	Simplify Cancel 7  08-066) CODE B28  posite Shapes  e up of one or more
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimett Answer:  Composite shaped different types of shaped different types different	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shapes different types of sh combination of circles.	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimett Answer:  Composite shaped different types of shaped different types different	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shapes different types of sh combination of circles.	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shapes different types of sh combination of circles.	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes  Define composite shapes.	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shapes different types of sh combination of circles.	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a
Theme: Measurement and Estimation (M-08-066) CODE B28  Lesson Title: Perimeter and Area of Composite Shapes	$= \frac{22}{7} \times 7$ $= 22 \times 1$ $= 2464 \text{ r}$ Theme: Measurement Lesson Title: Perimet Answer:  Composite shapes different types of sh combination of circles.	184 112 n <sup>2</sup> Int and Estimation (M-cer and Area of Come s are shapes made hapes. They can be	Simplify Cancel 7  D8-066) CODE B28  Sposite Shapes  De up of one or more the made up of a

Theme: Measurement and Estimation (M-08-067) CODE B29	Theme: Measurement and Estimation (M-08-067) CODE B29
Lesson Title: Perimeter and Area Story Problems	Lesson Title: Perimeter and Area Story Problems
Bright Secondary School has a football field that measures 120 meters on one side and 80 meters on the other side. A gardener is hired to plant carpet grass on the field.  a. Calculate the area of the field.	Answer:  First, draw a diagram. $\rightarrow$ a. Calculate the area of the field. $A = l \times w$ $= 120 \text{ m} \times 80 \text{ m}$ $= 9,600 \text{ m}^2$
b. If the cost of carpet grass is Le 200.00 per square meter, how much will it cost to cover the field?  3½ minutes	b. Find the cost. Multiply the cost per square meter by the number of square meters.  Cost = 9,600 × Le 200  = Le 1,920,000.00
Theme: Measurement and Estimation (M-08-068) CODE B30	Theme: Measurement and Estimation (M-08-068) CODE B30
Lesson Title: Volume of Solids  Write the general formula for the volume of prisms and cylinders as cross-sections multiplied by height.  2 minutes  Theme: Measurement and Estimation (M-08-069) CODE B31  Lesson Title: Volume of Cubes  Find the volume of a cube of side 7 cm.	Lesson Title: Volume of Solids  Answer:  Rectangular Prism: $V = l \times w \times h$ or $V = A \times h$ where $l$ is length, $w$ is width and $l$ is height  Cylinder: $V = \pi r^2$ or $V = A \times h$ where $l$ is radius and $l$ is height  Theme: Measurement and Estimation (M-08-069) CODE B31  Lesson Title: Volume of Cubes  Answer: $V = l^3$ formula $l = r^3$ substitute $l = 4$ $l = r^3$ calculate $l = 4$
2½ minutes  Theme: Measurement and Estimation (M-08-070) CODE B32	Theme: Measurement and Estimation (M-08-070) CODE B32
Lesson Title: Volume of Rectangular Prisms	Lesson Title: Volume of Rectangular Prisms
Find the volume of the cuboid bellow:  3 m  13 m	Answer:  First identify the <b>length</b> ( $l$ ), <b>width</b> ( $w$ ) and <b>height</b> ( $h$ ) of the cuboid. $l = 13 \text{ m}, w = 2 \text{ m}, h = 3 \text{ m}$ $V = lwh$ formula $= 13 \times 2 \times 3$ substitute the values $= 78 \text{ m}^3$

Theme: Measurement and Estimation (M-08-071) CODE B33	Theme: Measurement and Estimation (M-08-071) CODE B33
Lesson Title: Volume of Triangular Prisms	Lesson Title: Volume of Triangular Prisms
	Answer:
Find the volume of a rectangular prism with	1
base 4 m, height 7 m, and length 3 m	$V = \frac{1}{2}bhl$ formula
	$=\frac{1}{2}\times4\times7\times3$ substitute the values
	$=\frac{1}{2}\times 84$ multiply
	$= 42 \text{ cm}^3$
	12 5111
3 minutes	
Theme: Measurement and Estimation (M-08-072) CODE B34	Theme: Measurement and Estimation (M-08-072) CODE B34
Lesson Title: Volume of Cylinders	Lesson Title: Volume of Cylinders
	Answer:
Find the <b>volume</b> of the figure. Use $\pi = \frac{22}{7}$	
	$V = \pi r^2 h$ formula
	$= \frac{22}{7} \times (7)^2 \times 10$ substitute the values
10 cm	$= \frac{22}{7} \times 490 \qquad \text{multiply}$
r = 7  cm	= 1540 cm <sup>3</sup>
r = / cm	
3 minutes	
Theme: Measurement and Estimation (M-08-073) CODE B35	Theme: Measurement and Estimation (M-08-073) CODE B35
Lesson Title: Volume of Composite Solids	Lesson Title: Volume of Composite Solids
Find the values of the colid chaves	Answer: Find the volume of the <b>cube</b> $(V_1)$ and the volume of the
Find the <b>volume</b> of the solid shown:	rectangular prism $(V_2)$ separately, then add them to find
	the total volume $(V)$ .
3 cm	Volume of <b>cube</b> : Volume of <b>rectangular prism</b> :
	$\begin{vmatrix} V_1 = l^3 & V_2 = lwh \\ = (3)^3 & = 6 \times 3 \times 3 \end{vmatrix}$
3 cm	$= 3 \times 3 \times 3 \qquad = 54 \text{ cm}^3$
6 cm	$= 27 cm^3$
	Total volume:
21/	$V = V_1 + V_2$ = 27 cm <sup>3</sup> + 54 cm <sup>3</sup> = <b>81 cm</b> <sup>3</sup>
Theme: Measurement and Estimation (M-08-074) CODE B36	Theme: Measurement and Estimation (M-08-074) CODE B36
Lesson Title: Volume Story Problems	Lesson Title: Volume Story Problems
	Answer:
A carpenter built a box in the shape of a <b>rectangular prism</b> .	First, draw a diagram.
The area of the bottom of the box is 42 cm <sup>2</sup> and the box is	
The area of the bottom of the box is 42 cm <sup>2</sup> , and the box is	
20 cm tall. How many cubic centimetres of seeds will the box	h = 20 cm
	h = 20 cm
20 cm tall. How many cubic centimetres of seeds will the box	<u> </u>
20 cm tall. How many cubic centimetres of seeds will the box	h = 20 cm
20 cm tall. How many cubic centimetres of seeds will the box	Apply the volume formula:
20 cm tall. How many cubic centimetres of seeds will the box	A = 42 cm <sup>2</sup>

Theme: Measurement and Estimation (M-08-075) CODE B37	Theme: Measurement and Estimation (M-08-075) CODE B37
Lesson Title: Surface Area of Solids	Lesson Title: Surface Area of Solids
Define the term surface area.	Answer:  Surface area is the outside layer of a solid.
Theme: Measurement and Estimation (M-08-075) CODE B38	Theme: Measurement and Estimation (M-08-075) CODE B38
Lesson Title: Surface Area of Solids	Lesson Title: Surface Area of Solids
A rectangular prism has a length of 21 m, width of 20 m and height of 43 m. In what units is the surface area measured?	Answer:  Surface area is measured in <b>units squared</b> .  The surface area of this rectangular prism is measured in m².  This is read as "square metres" or "metres squared".
2 minutes	
2 111114100	1
Theme: Measurement and Estimation (M-08-076) CODE B39	Theme: Measurement and Estimation (M-08-076) CODE B39
	Theme: Measurement and Estimation (M-08-076) CODE B39  Lesson Title: Surface Area of Cubes and Rectangular Prisms
Theme: Measurement and Estimation (M-08-076) CODE B39	
Theme: Measurement and Estimation (M-08-076) CODE B39  Lesson Title: Surface Area of Cubes and Rectangular Prisms  Calculate the surface area for the rectangular prism:  3 m  13 m  Hint: Use the formula: $SA = 2lw + 2wh + 2lh$	Lesson Title: Surface Area of Cubes and Rectangular Prisms  Answer:  First identify the <b>length</b> ( $l$ ), <b>width</b> ( $w$ ) and <b>height</b> ( $h$ ) of the prism. $l = 13 \text{ m}, w = 2 \text{ m}, h = 3 \text{ m}$ surface area for the rectangular prism: $SA = 2lw + 2wh + 2lh$ formula $= 2(13)(2) + 2(2)(3) + 2(13)(3)$ substitute the values $= 52 + 12 + 78$ multiply
Theme: Measurement and Estimation (M-08-076) CODE B39  Lesson Title: Surface Area of Cubes and Rectangular Prisms  Calculate the surface area for the rectangular prism:  3 m  13 m  Hint: Use the formula: $SA = 2lw + 2wh + 2lh$ $3\frac{1}{2}$ minutes	Lesson Title: Surface Area of Cubes and Rectangular Prisms  Answer:  First identify the <b>length</b> ( $l$ ), <b>width</b> ( $w$ ) and <b>height</b> ( $h$ ) of the prism. $l = 13 \text{ m}, w = 2 \text{ m}, h = 3 \text{ m}$ surface area for the rectangular prism: $SA = 2lw + 2wh + 2lh$ formula $= 2(13)(2) + 2(2)(3) + 2(13)(3)$ substitute the values $= 52 + 12 + 78$ multiply $= 142 \text{ m}^2$
Theme: Measurement and Estimation (M-08-076) CODE B39  Lesson Title: Surface Area of Cubes and Rectangular Prisms  Calculate the surface area for the rectangular prism:  3 m  13 m  Hint: Use the formula: $SA = 2lw + 2wh + 2lh$ 3½ minutes  Theme: Measurement and Estimation (M-08-077) CODE B40	Lesson Title: Surface Area of Cubes and Rectangular Prisms  Answer:  First identify the length ( $l$ ), width ( $w$ ) and height ( $h$ ) of the prism. $l=13 \text{ m}, w=2 \text{ m}, h=3 \text{ m}$ surface area for the rectangular prism: $SA=2lw+2wh+2lh$ formula $=2(13)(2)+2(2)(3)+2(13)(3)$ substitute the values $=52+12+78$ multiply $=142 \text{ m}^2$ Theme: Measurement and Estimation (M-08-077) CODE B40
Theme: Measurement and Estimation (M-08-076) CODE B39  Lesson Title: Surface Area of Cubes and Rectangular Prisms  Calculate the surface area for the rectangular prism:  3 m  13 m  Hint: Use the formula: $SA = 2lw + 2wh + 2lh$ $3\frac{1}{2}$ minutes  Theme: Measurement and Estimation (M-08-077) CODE B40  Lesson Title: Surface Area of Triangular Prisms	Lesson Title: Surface Area of Cubes and Rectangular Prisms  Answer:  First identify the length ( $l$ ), width ( $w$ ) and height ( $h$ ) of the prism. $l=13 \text{ m}, w=2 \text{ m}, h=3 \text{ m}$ surface area for the rectangular prism: $SA=2lw+2wh+2lh$ formula $=2(13)(2)+2(2)(3)+2(13)(3)$ substitute the values $=52+12+78$ multiply $=142 \text{ m}^2$ Theme: Measurement and Estimation (M-08-077) CODE B40 Lesson Title: Surface Area of Triangular Prisms

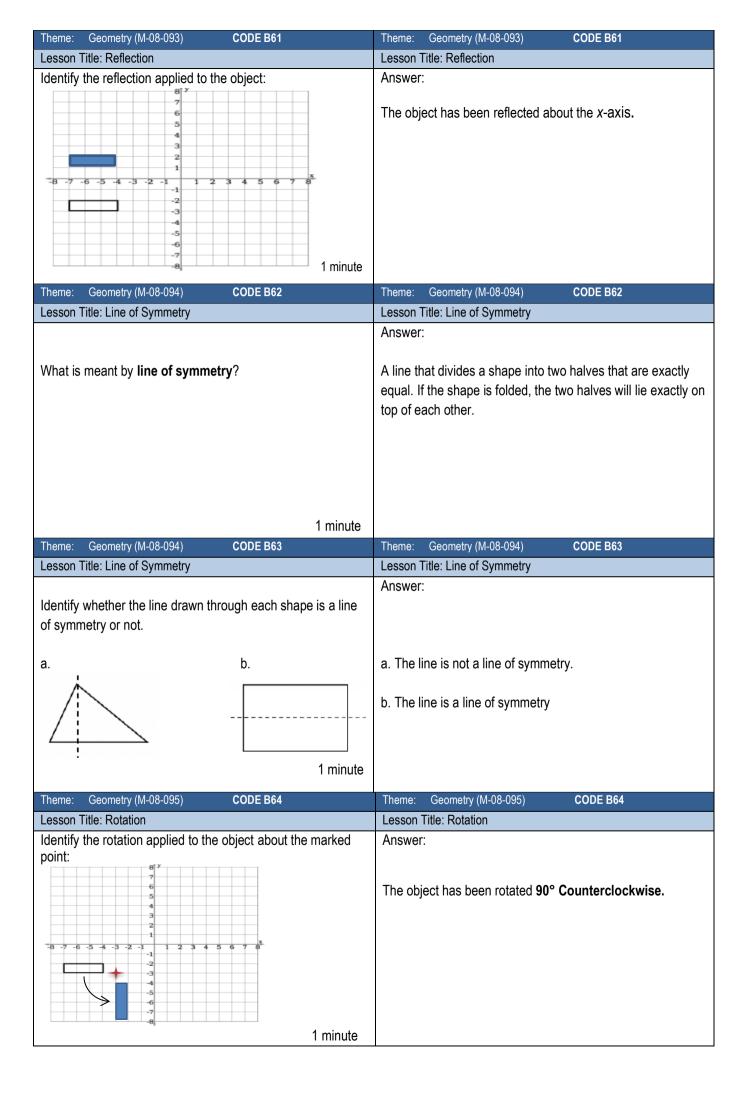
Theme: Measurement and Estimation (M-08-078) CODE B41	Theme: Measurement and Estimation (M-08-078) CODE B41
Lesson Title: Surface Area of Cylinders	Lesson Title: Surface Area of Cylinders
Find the <b>surface area</b> of the <b>cylinder</b> shown below. Use	Answer:
$\pi = \frac{22}{7}$ and give your answers to the nearest whole	surface area of cylinder:
number.	$SA = 2\pi r^2 + 2\pi rh$ formula
	= $2(\frac{22}{7})(7)^2 + 2(\frac{22}{7})(7)$ (10) substitute the values
10 cm	, , ,
	= 308 + 440 simplify = 748 cm <sup>2</sup>
r = 7  cm	- 740 0111
<b>Hint:</b> Use the formula: $SA = 2\pi r^2 + 2\pi rh$	
3½ minutes	
Theme: Measurement and Estimation (M-08-080) CODE B42	Theme: Measurement and Estimation (M-08-080) CODE B42
Lesson Title: Surface Area Story Problems	Lesson Title: Surface Area Story Problems
	Answer:
An open cylindrical tank has a radius of 3 metres and a	
height of 2 metres. Find its surface area to the nearest whole	$SA = 2\pi r^2 + 2\pi rh$ formula
number. (Use $\pi$ = 3.14)	$= 2(3.14) (3)^2 + 2(3.14) (3)(2)$ substitute the values
	= 56.52 + 37.68 multiply
	= 94.2
	The surface area of the cylindrical tank to the nearest
	whole number is 94 m <sup>2</sup>
3½ minutes	
Theme: Geometry (M-08-081) CODE B43	Theme: Geometry (M-08-081) CODE B43
Lesson Title: Introduction to Angles	Lesson Title: Introduction to Angles  Answer:
Describe the five types of angles:	Allower.
1. acute	1. An <b>acute</b> is an angle less than 90°.
2. obtuse	2. A <b>right</b> angle is an angle that is exactly 90°.
3. right	3. An <b>obtuse</b> angle is an angle that is greater than 90°, but
4. straight	less than 180°.
5. reflex	4. A <b>straight</b> angle is an angle that is exactly 180°.
	5. A <b>reflex</b> angle is an angle greater than 180°, but less than
	1 360°
5 minutes	360°.
5 minutes	360°.
Theme: Geometry (M-08-081) CODE B44	Theme: Geometry (M-08-081) CODE B44
	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles	Theme: Geometry (M-08-081) CODE B44
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words:	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Answer:
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104°	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words:	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Answer:
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104°	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Answer:  1. One hundred and four degrees.
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104°	Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Answer:  1. One hundred and four degrees.
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104°	Theme: Geometry (M-08-081)  Lesson Title: Introduction to Angles  Answer:  1. One hundred and four degrees.
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104° 2. 180°	Theme: Geometry (M-08-081)  Lesson Title: Introduction to Angles  Answer:  1. One hundred and four degrees.
Theme: Geometry (M-08-081) CODE B44  Lesson Title: Introduction to Angles  Write the following angle measurements in words: 1. 104°	Theme: Geometry (M-08-081)  Lesson Title: Introduction to Angles  Answer:  1. One hundred and four degrees.

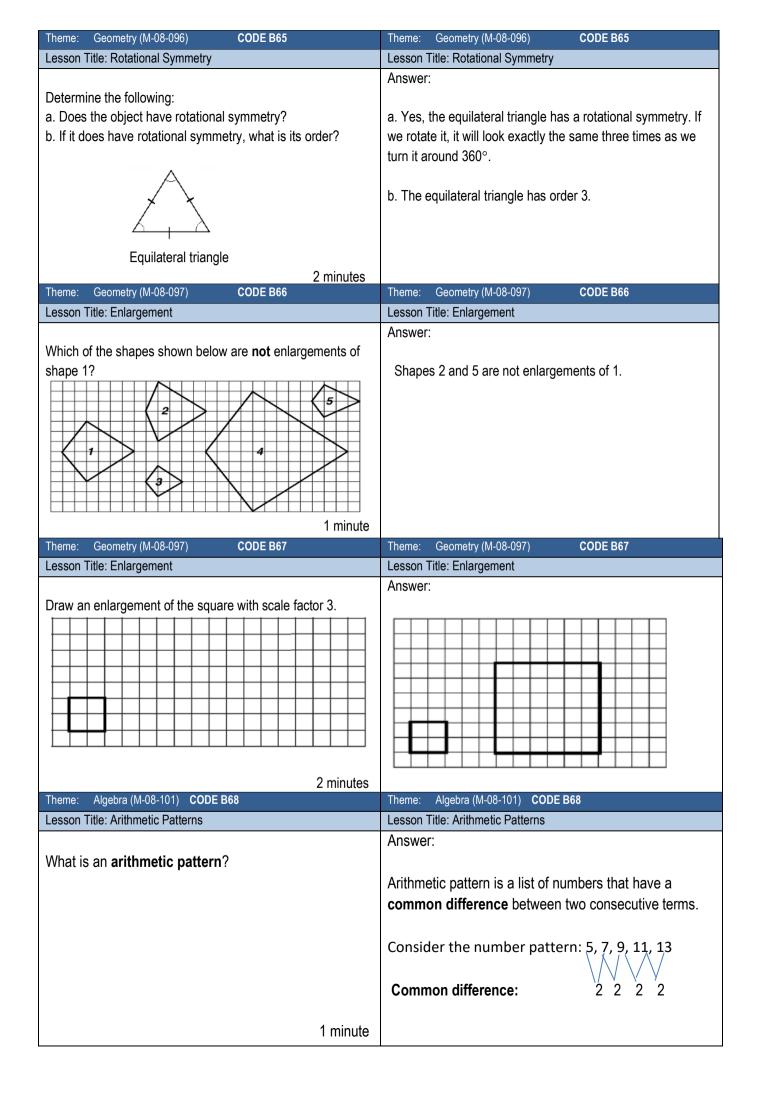
Theme: Geometry (M-08-082) CODE B45	Theme: Geometry (M-08-082) CODE B45
Lesson Title: Measurement of Angles	Lesson Title: Measurement of Angles
Estimate the measure of the given angle:  X  2 minutes	Answer:  The measure of the angle is ∠XOY = 40°
Theme: Geometry (M-08-083) CODE B46	Theme: Geometry (M-08-083) CODE B46
Lesson Title: Finding Unknown Angles in Triangles	Lesson Title: Finding Unknown Angles in Triangles
Define the <b>interior</b> angles of a triangle.	Answer:  Interior angles are angles that are inside the triangle. The sum of these angles is 180°.  For example, the angles $a$ , $b$ and $c$ are called interior angles of the triangle below.
2 minutes	<b>And</b> : a + b + c = 180°.
Theme: Geometry (M-08-083) CODE B47	Theme: Geometry (M-08-083) CODE B47
Lesson Title: Finding Unknown Angles in Triangles  Find the measure of the angle marked $x$ in the triangle below:	Lesson Title: Finding Unknown Angles in Triangles  Answer:  The sum of the interior angles of a triangle is $180^\circ$ . $x + 60^\circ + 53^\circ = 180^\circ$ $x + 113^\circ = 180^\circ$ $x = 180^\circ - 113^\circ$ $x = 67^\circ$
3 minutes	
Theme: Geometry (M-08-084) CODE B48	Theme: Geometry (M-08-084) CODE B48
Lesson Title: Finding Unknown Angles in Quadrilaterals	Lesson Title: Finding Unknown Angles in Quadrilaterals
Find the measures of angles B, C and D in the parallelogram:	Answer: Note that $C = A$ because they are opposite angles in a parallelogram. Thus, $C = 148^{\circ}$ . B and D are unknown angles.
B A 148° D 3 minutes	$A + B + C + D = 360^{\circ}$ $148^{\circ} + B + 148^{\circ} + D = 360^{\circ}$ $B + D + 296^{\circ} = 360^{\circ}$ $B + D = 360^{\circ} - 296^{\circ}$ $B + D = 64^{\circ}$ <b>NOTE</b> : B = D (opp angles of parallelogram) $2B = 360^{\circ} - 296^{\circ}$ <b>Hence</b> : $2B = 64^{\circ}$ → B = $32^{\circ}$ and D = $32^{\circ}$

Lesson Title: Angle Practice  Calculate the size of x in the Isosceles triangle below:  x = qual angles of the isosceles triangle x + x + 100° = 180° 2x = 80° 2x = 80° 2x = 40°  Remember: An isosceles triangle has two equal angles. 2 minutes  There: Geometry (M 88-986)	Theme: Geometry (M-08-085) CODE B49	Theme: Geometry (M-08-085) CODE B49
Calculate the size of x in the isosceles triangle below:  x = x equal angles of the isosceles triangle x + x + 100° = 180° 2 x = 80° 2 x = 20° 2 x = 40° 2 x = 40° 2 x = 40° 2 x = 40° 3 minutes  Theme: Geometry (M-08-086) CODE B50 Lesson Title: Polygons List any three types of regular polygons.  List any three types of regular polygons.  Theme: Geometry (M-08-086) CODE B51 Lesson Title: Polygons Answer:  5 Sides - pentagon  5 Sides - pentagon  5 Sides - pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	Lesson Title: Angle Practice	Lesson Title: Angle Practice
X = X   equal angles of the isosceles triangle   X + X + 100° = 180°   2X = 180° - 100°   2X = 80°   2X = 80		Answer:
Lesson Title: Polygons  Answer:  1. 5 Sides – pentagon 2. 6 Sides – hexagon 3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086) CODE B51  Lesson Title: Polygons  Answer:  1. 5 Sides – hexagon 3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086) CODE B51  Lesson Title: Polygons  Answer:  5 Sides – Pentagon  5 Sides – pentagon  5 Sides – pentagon  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Sum of interior angles = 180° (n – 2),	Remember: An isosceles triangle has two equal angles.	$x + x + 100^{\circ} = 180^{\circ}$ $2x = 180^{\circ} - 100^{\circ}$ $2x = 80^{\circ}$ $\frac{2}{2}x = \frac{80^{\circ}}{2}$ divide both sides of the equation by 2
Answer:  1. 5 Sides – pentagon  2. 6 Sides – hexagon  3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086) CODE B51 Lesson Title: Polygons  Draw the following polygon.  5 Sides - pentagon  5 Sides - pentagon  5 Sides - pentagon  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Sum of interior angles = 180° (n - 2),	Theme: Geometry (M-08-086) CODE B50	Theme: Geometry (M-08-086) CODE B50
List any three types of regular polygons.  1. 5 Sides – pentagon 2. 6 Sides – hexagon 3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086) CODE B51 Theme: Geometry (M-08-086) CODE B51 Lesson Title: Polygons  Answer:  5 Sides - Pentagon 5 Sides - pentagon  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	Lesson Title: Polygons	
1. 5 Sides – pentagon 2. 6 Sides – hexagon 3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086)		Answer:
3. 4 Sides - quadrilateral  Theme: Geometry (M-08-086) CODE B51  Lesson Title: Polygons  Answer:  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	List any three types of <b>regular polygons</b> .	1. 5 Sides – pentagon
Theme: Geometry (M-08-086) CODE B51 Lesson Title: Polygons Lesson Title: Polygons  Answer:  5 Sides - Pentagon  5 Sides - Pentagon  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Sum of interior angles = 180° (n - 2),		2. 6 Sides – <b>hexagon</b>
Theme: Geometry (M-08-086) CODE B51  Lesson Title: Polygons  Answer:  5 Sides - Pentagon  5 Sides - pentagon  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Sum of interior angles = 180° (n - 2),		3. 4 Sides - quadrilateral
Lesson Title: Polygons  Answer:  5 Sides - Pentagon  5 Sides - pentagon  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Lesson Title: Sum of interior angles = 180° (n - 2),		
Draw the following polygon.  5 Sides - Pentagon  5 Sides - Pentagon  Theme: Geometry (M-08-087) CODE B52 Lesson Title: Sum of the Interior Angles of a Pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Answer:  Sum of interior angles = 180° (n - 2),		
Draw the following polygon.  5 Sides - Pentagon  3 Minutes  Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	Lesson fille. Polygons	1.7
Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	Draw the following <b>polygon</b> .	Answer:
Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n-2$ ),		5 Sides - Pentagon
Theme: Geometry (M-08-087)  CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = 180° (n - 2),	5 Sides - pentagon	$\wedge$
Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),		
Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),		
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Theme: Geometry (M-08-087) CODE B52  Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),		\ /
Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),	3 Minutes	
Lesson Title: Sum of the Interior Angles of a Pentagon  Lesson Title: Sum of the Interior Angles of a Pentagon  Answer:  Write the formula for calculating the sum of the interior angles of a polygon.  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),	Thomas Committee (MACC 007)	Thursday (N. 09.007)
Write the formula for calculating the sum of the <b>interior</b> angles of a <b>polygon</b> .  Answer:  Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),		
Write the formula for calculating the sum of the <b>interior</b> angles of a <b>polygon</b> . Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),	Lesson Title: Sum of the Interior Angles of a Pentagon	
<b>angles</b> of a <b>polygon</b> . Sum of interior angles = $180^{\circ}$ ( $n - 2$ ),	Write the formula for calculating the sum of the <b>interior</b>	AIISWCI.
		Sum of interior angles = $180^{\circ}$ ( $n - 2$ ).
	. , , , , , , , , , , , , , , , , , , ,	, ,
2 minutes	2 minutes	

Theme: Geometry (M-08-087) CODE B53	Theme: Geometry (M-08-087) CODE B53
Lesson Title: Sum of the Interior Angles of a Pentagon	Lesson Title: Sum of the Interior Angles of a Pentagon
	Answer:
Add the angles of the <b>pentagon</b> below to verify that they add	
up to 540°.	Add the measures of the angles:
120°	120° + 120° + 105° + 115° + 80° = 540°
120°\	TI
\\\ 80°	The sum of the angles of the pentagon is 540°.
105° )	
115°	
A minute	
1 minute	
Theme: Geometry (M-08-088) CODE B54	Theme: Geometry (M-08-088) CODE B54
Lesson Title: Sum of the Interior Angles of a Polygon	Lesson Title: Sum of the Interior Angles of a Polygon
	Answer:
Calculate the sum of the <b>interior angles</b> of a <b>polygon</b> with 8	
sides	Substitute $n = 8$ in the formula and solve:
Hints Has the formula for the same of in the	Sum of angles = $(n - 2) \times 180^{\circ}$
Hint: Use the formula for the sum of interior angles	= (8 - 2) × 180° = 6 × 180°
	= 1080°
	- 1000
3 minutes	
Theme: Geometry (M-08-089) CODE B55	Theme: Geometry (M-08-089) CODE B55
Theme: Geometry (M-08-089) CODE B55  Lesson Title: Interior Angle Practice	Lesson Title: Interior Angle Practice
Lesson Title: Interior Angle Practice	
	Lesson Title: Interior Angle Practice Answer:
Lesson Title: Interior Angle Practice	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make
Lesson Title: Interior Angle Practice  Find the measure of angle x:	Lesson Title: Interior Angle Practice Answer:
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  115°	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  115°  125°	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°:
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  115°	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  115°  125°  100°	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°: $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$
Find the measure of angle x:  120°  115°  125°  100°	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°: $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  115°  125°  100°  2 minutes	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°: $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$ $= 125^{\circ}$
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  x 115°  100°  2 minutes  Theme: Geometry (M-08-090)  CODE B56	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°: $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$ $= 125^{\circ}$ Theme: Geometry (M-08-090) CODE B56
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120° x 115° 125° 100°  . 2 minutes  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°: $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$ $= 125^{\circ}$ Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems
Lesson Title: Interior Angle Practice  Find the measure of angle x:  120°  x 115°  125°  100°  2 minutes  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Issa is building a house. He wants to build a strong one, and	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is $720^{\circ}$ .  Subtract the known angles from $720^{\circ}$ : $x = 720^{\circ} - 120^{\circ} - 115^{\circ} - 100^{\circ} - 135^{\circ} - 125^{\circ}$ $= 125^{\circ}$ Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Answer:
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Find the measure of angle x:  120° x 115° 125° 100°  . 2 minutes  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Issa is building a house. He wants to build a strong one, and he knows the two angles between the roof and walls must be	Lesson Title: Interior Angle Practice  Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°:  x = 720° - 120° - 115° - 100° - 135° -125°  = 125°  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Answer:  His house is in the shape of a pentagon. Remember that the sum of the angles in a pentagon is 540°. First, subtract the 3 known angles. Because the last 2 angles are equal, then
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Find the measure of angle x:  120°  x 115°  125°  100°  2 minutes  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Issa is building a house. He wants to build a strong one, and he knows the two angles between the roof and walls must be equal. Help him by finding the missing angles in the diagram of his house.	Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°:  x = 720° - 120° - 115° - 100° - 135° -125°  = 125°  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Answer:  His house is in the shape of a pentagon. Remember that the sum of the angles in a pentagon is 540°. First, subtract the 3 known angles. Because the last 2 angles are equal, then divide by 2.  Subtract the known angles: 540° - 124° - 90° - 90° = 236°  Divide by 2 to find the measure of each angle:
Find the measure of angle x:  120° x 115° 125° 100°  2 minutes  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Issa is building a house. He wants to build a strong one, and he knows the two angles between the roof and walls must be equal. Help him by finding the missing angles in the diagram of his house.	Answer:  There are 6 sides and 6 angles in this polygon, which make it a pentagon. The sum of the angles of a pentagon is 720°.  Subtract the known angles from 720°:  x = 720° - 120° - 115° - 100° - 135° -125°  = 125°  Theme: Geometry (M-08-090) CODE B56  Lesson Title: Interior Angle Story Problems  Answer:  His house is in the shape of a pentagon. Remember that the sum of the angles in a pentagon is 540°. First, subtract the 3 known angles. Because the last 2 angles are equal, then divide by 2.  Subtract the known angles: 540° - 124° - 90° - 90° = 236°  Divide by 2 to find the measure of each angle:

Theme: Geometry (M-08-091) CODE B57	Theme: Geometry (M-08-091) CODE B57
Lesson Title: Introduction to Transformation	Lesson Title: Introduction to Transformation
	Answer:
What is meant by the <b>translation</b> of a shape?	If a shape can be moved in any direction, but keeps the same shape and size, then the shape can be translated.
Theme: Geometry (M-08-091) CODE B58	Theme: Geometry (M-08-091) CODE B58
Lesson Title: Introduction to Transformation	Lesson Title: Introduction to Transformation
Lesson Title. Introduction to Transformation	Answer:
What is meant by the <b>rotation</b> of a shape?	A shape moves or turns around a fixed point. It is still the same shape and size, but faces a different direction.
1 minute	
Theme: Geometry (M-08-092) CODE B59	Theme: Geometry (M-08-092) CODE B59
Lesson Title: Translation	Lesson Title: Translation
Translate the rectangle on the plane below to 3 units down and 1 unit to the right	Answer:
Theme: Geometry (M-08-093) CODE B60	Theme: Geometry (M-08-093) CODE B60
Lesson Title: Reflection	Lesson Title: Reflection
Reflect the shape about the <i>x</i> -axis. Where does the reflection lie?	Answer:  -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8  -8 -7 -6 -5 -4 -3 -2 -1 -1 -2 3 4 5 6 7 8





Theme: Algebra (M-08-101) CODE B69	Theme: Algebra (M-08-101) CODE B69
Lesson Title: Arithmetic Patterns	Lesson Title: Arithmetic Patterns
	Answer:
Identify whether each of the following lists of numbers is	
an arithmetic pattern. If it is an arithmetic pattern, give	
the common difference:	a. Arithmetic pattern with common difference 8
a. 8, 16, 24, 32,	b. Arithmetic pattern with common difference 3
b. 1, 4, 7, 10, 13,	·
c. 3, 6, 12, 24, 48,	c. Not an arithmetic pattern
	·
3 minutes	
Theme: Algebra (M-08-101) CODE B70	Theme: Algebra (M-08-101) CODE B70
Lesson Title: Arithmetic Patterns	Lesson Title: Arithmetic Patterns
	Answer:
Find the common difference and write the missing	
numbers in each pattern:	
	Pattern: 15, 11, 7, 3, –1, –5
15, 11,, 3, –1 ,	
, , , , , , , , , , , , , , , , , , , ,	Common difference: –4
1 minute	
	Theme: Algebra (M-08-102) CODE B71
Theme: Algebra (M-08-102) CODE B71	Theme: Algebra (M-08-102) CODE B71
Lesson Title: Creating Arithmetic Patterns	
Lesson Title: Creating Arithmetic Patterns	Lesson Title: Creating Arithmetic Patterns
Write an arithmetic pattern starting with <b>0</b> , with a	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the	Lesson Title: Creating Arithmetic Patterns
Write an arithmetic pattern starting with <b>0</b> , with a	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.	Lesson Title: Creating Arithmetic Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) <b>CODE B72</b>	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) <b>CODE B72</b> Lesson Title: Introduction to Geometric Patterns	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns
Write an arithmetic pattern starting with <b>0</b> , with a common difference of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns
Write an arithmetic pattern starting with <b>0</b> , with a common difference of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a common difference of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:
Write an arithmetic pattern starting with <b>0</b> , with a common difference of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric pattern, give the common ratio:	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:  a. Not a geometric pattern.
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric pattern, give the common ratio:  a. 10, 30, 50, 70,	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:  a. Not a geometric pattern.
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric pattern, give the common ratio:  a. 10, 30, 50, 70, b2, 6, -18, 54,	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:  a. Not a geometric pattern.  b. Geometric pattern with common ratio -3
Write an arithmetic pattern starting with <b>0</b> , with a <b>common difference</b> of <b>4</b> . Write the first 6 terms of the pattern.  1 minute  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Determine whether each of the following lists of numbers is a geometric pattern. If it is a geometric pattern, give the common ratio:  a. 10, 30, 50, 70, b2, 6, -18, 54,	Lesson Title: Creating Arithmetic Patterns  Answer:  Pattern: 0, 4, 8, 12, 16, 20.  Theme: Algebra (M-08-103) CODE B72  Lesson Title: Introduction to Geometric Patterns  Answer:  a. Not a geometric pattern.  b. Geometric pattern with common ratio -3

Theme: Algebra (M-08-104) CODE B73	Theme: Algebra (M-08-104) CODE B73
Lesson Title: Terms of Geometric Patterns	Lesson Title: Terms of Geometric Patterns
	Answer:
Find the common ratio and write the missing numbers	7 11011011
in each pattern	Pattern: 3, 9, 27, 81, 243
in each pattern	1 attern. 5, 5, 21, 61, 245
3, 9,,,	Common ratio: 3
J, 9,,,	Common ratio. 5
4 mainsute	
1 minute	
Theme: Algebra (M-08-105) CODE B74	Theme: Algebra (M-08-105) CODE B74
Lesson Title: Creating Geometric Patterns	Lesson Title: Creating Geometric Patterns
	Answer:
Write a geometric pattern starting with −1, with a	
common ratio of -2.	Pattern: −1, 2, −4, 8,
Write the first 4 terms of the pattern.	
1 minute	
TI ALL (1400 400) - 000 TO	
Theme: Algebra (M-08-106) CODE B75	Theme: Algebra (M-08-106) CODE B75
Theme: Algebra (M-08-106) CODE B75  Lesson Title: Simplifying Algebraic Expressions	Theme: Algebra (M-08-106) CODE B75  Lesson Title: Simplifying Algebraic Expressions
Lesson Title: Simplifying Algebraic Expressions	Lesson Title: Simplifying Algebraic Expressions  Answer:
	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, like terms are terms that have the same
Lesson Title: Simplifying Algebraic Expressions	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, like terms are terms that have the same variable, and the variables have the same
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Lesson Title: Simplifying Algebraic Expressions	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, like terms are terms that have the same variable, and the variables have the same power.
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Lesson Title: Simplifying Algebraic Expressions  What are like terms?	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the
Lesson Title: Simplifying Algebraic Expressions  What are like terms?	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.
Lesson Title: Simplifying Algebraic Expressions  What are like terms?  1 minute  Theme: Algebra (M-08-106) CODE B76	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) CODE B76
Lesson Title: Simplifying Algebraic Expressions  What are like terms?	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) CODE B76 Lesson Title: Simplifying Algebraic Expressions
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Lesson Title: Simplifying Algebraic Expressions  What are like terms?  1 minute  Theme: Algebra (M-08-106) CODE B76	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Answer:
Lesson Title: Simplifying Algebraic Expressions  What are like terms?  1 minute  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Simplify the following algebraic expressions:	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $10x - 5y + 2y - 7x + 6$
Lesson Title: Simplifying Algebraic Expressions  What are like terms?  1 minute  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) <b>CODE B76</b> Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $10x - 5y + 2y - 7x + 6$ = $(10 - 7) x + (-5 + 2)y + 6$
Lesson Title: Simplifying Algebraic Expressions  What are <b>like terms</b> ?  1 minute  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Simplify the following algebraic expressions:  a. $10x - 5y + 2y - 7x + 6$	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $10x - 5y + 2y - 7x + 6$
Lesson Title: Simplifying Algebraic Expressions  What are like terms?  1 minute  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Simplify the following algebraic expressions:	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) <b>CODE B76</b> Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $10x - 5y + 2y - 7x + 6 = (10 - 7) x + (-5 + 2)y + 6 = 3x - 3y + 6$
Lesson Title: Simplifying Algebraic Expressions  What are <b>like terms</b> ?  1 minute  Theme: Algebra (M-08-106) CODE B76  Lesson Title: Simplifying Algebraic Expressions  Simplify the following algebraic expressions:  a. $10x - 5y + 2y - 7x + 6$	Lesson Title: Simplifying Algebraic Expressions  Answer: In algebra, <b>like terms</b> are terms that have the same variable, and the variables have the same power. <b>Example</b> : $5p^2$ and $8p^2$ are like terms, with the variable $p$ to the power 2. <b>Example</b> : $3x$ and $x$ are like terms with $x$ raised to the power of 1.  Theme: Algebra (M-08-106) <b>CODE B76</b> Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $10x - 5y + 2y - 7x + 6$ = $(10 - 7)x + (-5 + 2)y + 6$ = $3x - 3y + 6$ b. $3u - 3 + 4v - 2u + 7 - 2v$
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Theme: Algebra (M-08-107) CODE B77	Theme: Algebra (M-08-107) CODE B77
Lesson Title: Simplifying Expressions with Higher Powers	Lesson Title: Simplifying Expressions with Higher Powers
	Answer:
Consider the algebraic expression:	
$x^3 + 7x - x^2 + 3x + 8x^3 + 4x^2$	a. $x^3 + 7x - x^2 + 3x + 8x^3 + 4x^2$
a. Simplify the expression.	$= (1+8) x^3 + (-1+4) x^2 + (7+3) x$ = $9x^3 + 3x^2 + 10x$
a. Cimpiny the expression.	- 9x + 5x + 10x
b. How many terms are there in this simplified algebraic	b. The algebraic expression has 3 terms
expression?	
3 minutes	
Theme: Algebra (M-08-108) CODE B78	Theme: Algebra (M-08-108) CODE B78
Lesson Title: Simplifying Expressions with Fractions	Lesson Title: Simplifying Expressions with Fractions
Oima life	Answer:
Simplify:	
$6 + \frac{1}{2}x^2 + x - \frac{1}{4}x^2 + 2x^1 - 4x^3$	$6 + \frac{1}{2}x^2 + x - \frac{1}{4}x^2 + 2x^1 - 4x^3$
	$= -4x^3 + \frac{1}{2}x^2 - \frac{1}{4}x^2 + x + 2x + 6$
	$=-4x^3+\left(\frac{1}{2}-\frac{1}{4}\right)x^2+(1+2)x+6$
	$=-4x^3 + \frac{1}{4}x^2 + 3x + 6$
	4
2 minutes	
Theme: Algebra (M-08-108) CODE B79	Theme: Algebra (M-08-108) CODE B79
Lesson Title: Simplifying Algebraic Expressions	Lesson Title: Simplifying Algebraic Expressions
	Answer:
Simplify:	
	$8 + \frac{5}{6}x^2 + \frac{1}{2}x + \frac{1}{2}x^2 + \frac{1}{5}$
Simplify: $8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$	$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$
	$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $= \frac{5}{6}x^2 + \frac{1}{3}x^2 + \frac{1}{3}x + \frac{1}{5} + 8$
	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$
	$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $= \frac{5}{6}x^2 + \frac{1}{3}x^2 + \frac{1}{3}x + \frac{1}{5} + 8$
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$
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$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ 2 minutes	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ 2 minutes  Theme: Algebra (M-08-110) CODE B80	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80
$8+\frac{5}{6}x^2+\frac{1}{3}x+\frac{1}{3}x^2+\frac{1}{5}$ 2 minutes  Theme: Algebra (M-08-110) CODE B80  Lesson Title: Multiplying Variables	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $2 \text{ minutes}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying Variables Remove brackets and simplify the following algebraic expressions:	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer Answer:
$8+\frac{5}{6}x^2+\frac{1}{3}x+\frac{1}{3}x^2+\frac{1}{5}$ $2 \text{ minutes}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying Variables Remove brackets and simplify the following algebraic	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $2 \text{ minutes}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying Variables Remove brackets and simplify the following algebraic expressions: $a7x^5(-x^2 + y^3)$	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer Answer:  a. $7x^{7} - 7x^{5}y^{3}$
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $2 \text{ minutes}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying Variables Remove brackets and simplify the following algebraic expressions:	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer Answer:
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $2 \text{ minutes}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying Variables Remove brackets and simplify the following algebraic expressions: $a7x^5(-x^2 + y^3)$	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80 Lesson Title: Multiplying an Algebraic Expression by an Integer Answer:  a. $7x^{7} - 7x^{5}y^{3}$
$8 + \frac{5}{6}x^2 + \frac{1}{3}x + \frac{1}{3}x^2 + \frac{1}{5}$ $2 \text{ minutes}$ $Theme: Algebra (M-08-110) \text{ CODE B80}$ $Lesson Title: Multiplying Variables$ $Remove brackets and simplify the following algebraic expressions:$ $a7x^5(-x^2 + y^3)$ $b. 100w(x^2 - 3w^2)$	$8 + \frac{5}{6}x^{2} + \frac{1}{3}x + \frac{1}{3}x^{2} + \frac{1}{5}$ $= \frac{5}{6}x^{2} + \frac{1}{3}x^{2} + \frac{1}{3}x + \frac{1}{5} + 8$ $= (\frac{5}{6} + \frac{1}{3})x^{2} + \frac{1}{3}x + (\frac{1}{5} + 8)$ $= \frac{7}{6}x^{2} + \frac{1}{3}x + \frac{41}{5}$ Theme: Algebra (M-08-110) CODE B80  Lesson Title: Multiplying an Algebraic Expression by an Integer  Answer:  a. $7x^{7} - 7x^{5}y^{3}$ b. $100wx^{2} - 300w^{3}$

Theme: Algebra (M-08-112) CODE B81	Theme: Algebra (M-08-112) CODE B81
Lesson Title: Simplifying and Expanding Algebraic Expressions	Lesson Title: Simplifying and Expanding Algebraic Expressions
	Answer:
Expand and simplify:	
	Hint: Use <b>BODMAS</b>
2a [(a + 3b) + 4(2a - b)]	
, , ,	2a [(a + 3b) + 4(2a - b)]
	= 2a (a + 3b + 8a - 4b)
	= 2a (a + 8a + 3b - 4b)
	= 2a (9a - b)
	$= 18a^2 - 2ab$
2 minutes	- 100 200
Theme: Algebra (M-08-113) CODE B82	Theme: Algebra (M-08-113) CODE B82
Lesson Title: Algebraic Expression Story	Lesson Title: Algebraic Expression Story
Solve the following word problems:	Answer:
Colve the following word problems.	/ III SWGI.
1. Howe in twice on old on Muco. If Muco. in 2	1 Muse's age — 2(** 1.2)
1. Hawa is twice as old as Musa. If Musa is $x + 3$ years	1. Musa's age = $2(x + 3)$
old, write an expression for Hawa's age.	2
	=2x+6
2. A man has $15x$ sheep and $10y$ goats. He sells $6x$	
sheep and $2y$ goats. How many animals are	animals sold
left after the sales?	2. Total animals left = $15x + 10y - (6x + 2y)$
	=9x+8y
2 minutes	
1	
Theme: Algebra (M-08-114) CODE B83	Theme: Algebra (M-08-114) CODE B83
Theme: Algebra (M-08-114) CODE B83  Lesson Title: Factoring Integers from Algebraic Expressions	Lesson Title: Factoring Integers from Algebraic Expressions
Lesson Title: Factoring Integers from Algebraic Expressions	7
	Lesson Title: Factoring Integers from Algebraic Expressions Answer:
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5
Lesson Title: Factoring Integers from Algebraic Expressions	Lesson Title: Factoring Integers from Algebraic Expressions Answer:
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5
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Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5  = $5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2
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Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$ 2. $10s + 12t - 4t$ 2 minutes  Theme: Algebra (M-08-115) CODE B84	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2 $= 2(5s + 6t - 2t)$ divide each term by 2
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$ 2. $10s + 12t - 4t$ 2 minutes  Theme: Algebra (M-08-115) CODE B84	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2 $= 2(5s + 6t - 2t)$ divide each term by 2  Theme: Algebra (M-08-106) CODE B84 Lesson Title: Simplifying Algebraic Expressions
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$ 2. $10s + 12t - 4t$ 2 minutes  Theme: Algebra (M-08-115) CODE B84  Lesson Title: Factoring Variables from Algebraic Expressions	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2 $= 2(5s + 6t - 2t)$ divide each term by 2  Theme: Algebra (M-08-106) CODE B84 Lesson Title: Simplifying Algebraic Expressions
Lesson Title: Factoring Integers from Algebraic Expressions  Factorise the following expressions:  1. $5x^3 + 15x^2 + 35x + 20$ 2. $10s + 12t - 4t$ 2 minutes  Theme: Algebra (M-08-115) CODE B84  Lesson Title: Factoring Variables from Algebraic Expressions	Lesson Title: Factoring Integers from Algebraic Expressions  Answer:  1. $5x^3 + 15x^2 + 35x + 20 = 5()$ take out the HCF, 5 $= 5(x^3 + 3x^2 + 7x + 4)$ divide each term by 5  2. $10s + 12t - 4t = 2()$ take out the HCF, 2 $= 2(5s + 6t - 2t)$ divide each term by 2  Theme: Algebra (M-08-106) CODE B84 Lesson Title: Simplifying Algebraic Expressions  Answer:  a. $x^3 + 5x^2 = x^2()$ the HCF is $x^2$
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