

Total 8/8

Question 3

Calculate the perimeter of the shapes below:

		Object	
1. 1,5cm	$P = 1,5 + 2,2 + 1,6 + 1,4 + 1,5 + 1,8 = 10 cm \checkmark$		Си
1,5cm 1,4cm 1,6mm	*Remember 10mm = 1cm		Tri Pri
2 .	P = 3,5 + 3,5 + 1 = 8m \checkmark	\bigtriangleup	Tri -bo Py
1m			Oc Pri
	Total 2/2		

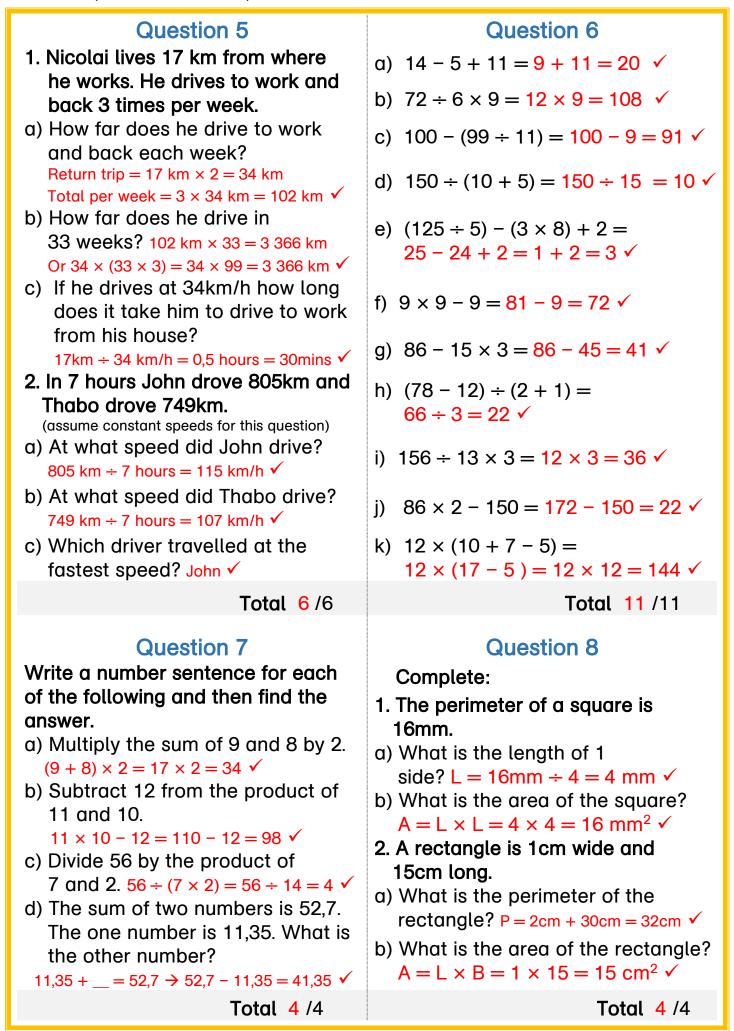
Question 2

- a) $413 \times 2 = 826$
- b) 17 × 1 = 17 ✓
- c) $17 \div 1 = 17 \checkmark$
- d) $250 \div 0 =$ undefined \checkmark
- e) $112 \times 0 = 0 \checkmark$
- f) $362 \div 362 = 1 \checkmark$
- g) $45 \times 99 = 45 \times (100 1) = 4500 45$ = 4455 \checkmark
- h) $14 \times 3 = 42 \checkmark$

Total 8/8

Question 4

Comp	lete the ta	ble:	
3-D Object	Name	No. Faces	No. Vertices
	Cube 🗸	6 ✓	8 🗸
	Triangular Prism ✓	5 ✓	6 ✓
	Triangular -based Pyramid√	4 ✓	4 🗸
	Octagonal Prism ✓	10 🗸	16 🗸
		Total 1	<mark>2</mark> /12



Question 9	Question 10
Fill in the missing number/s to make each statement correct.	1. Write down the first 5 multiples of:
a) $426 \times (20 + 5) =$ (426 × 20) + (426 × 5) $\checkmark\checkmark$	a) 25. 25 , 50 , 75 , 100 , 125. 🗸
b) $312 \times 99 =$ (312 × 100) - (312 × 1) $\checkmark\checkmark$	b) 16. 16 , 32 , 48 , 64 , 80. ✓
c) $26 \times (80 - 7) =$ (26 × 80) - (26 × 7) $\checkmark \checkmark$	c) 30. 30 , 60 , 90 , 120 , 150. ✓
d) $\frac{3}{4}$ of 1 million = 750 000 = 340 000 + 410 000 \checkmark	2. Write down the prime factor/s of each number.
e) $0 \div 123^{=0} = 563 \times 0 \checkmark$	a) 30. 2, 3 and 5. ✓ [1, 2, 3, 5, 6, 10, 15, 30]
f) $\frac{1}{2} = \frac{36}{72} \checkmark (\times 36)$	b) 15. 3 and 5. ✓ [1, 3, 5, 15]
g) $\frac{5}{8} = \frac{60}{96} \checkmark (\times 12)$	c) 32. 2. ✓ [1, 2, 4, 8, 16, 32]
Total 10 /10	Total <mark>6</mark> /6
Question 11	Question 12
Question 11 True or False? If false, give the correct answer.	Question 12 a) 18,7 - 5,5 = 13,2 ✓
True or False?	
 True or False? If false, give the correct answer. a) To draw a reflection of a shape is to draw its mirror image. True. ✓ b) The size of a figure changes when it is translated. False. 	a) 18,7 − 5,5 = 13,2 ✓
 True or False? If false, give the correct answer. a) To draw a reflection of a shape is to draw its mirror image. True. ✓ b) The size of a figure changes 	a) $18,7 - 5,5 = 13,2 \checkmark$ b) $12,2 \div 100 = 0,122 \checkmark$
 True or False? If false, give the correct answer. a) To draw a reflection of a shape is to draw its mirror image. True. ✓ b) The size of a figure changes when it is translated. False. Its size remains the same, its position changes. ✓ c) Reducing a shape by a factor of 3 is the same as enlarging 	 a) 18,7 - 5,5 = 13,2 ✓ b) 12,2 ÷ 100 = 0,122 ✓ c) 0,003 × 100 = 0,3 ✓ d) It takes Fred 3min 14 sec to do1 sum. How long will it take him to do 7 similar sums? 3min 14sec × 7 = 21min 98sec =
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 True or False? If false, give the correct answer. a) To draw a reflection of a shape is to draw its mirror image. True. ✓ b) The size of a figure changes when it is translated. False. Its size remains the same, its position changes. ✓ c) Reducing a shape by a factor of 3 is the same as enlarging it by a factor of 1/4. False. ✓ 	 a) 18,7 - 5,5 = 13,2 ✓ b) 12,2 ÷ 100 = 0,122 ✓ c) 0,003 × 100 = 0,3 ✓ d) It takes Fred 3min 14 sec to do1 sum. How long will it take him to do 7 similar sums? 3min 14sec × 7 = 21min 98sec = 22min 38sec (98sec = 1min 38sec) ✓

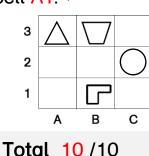
4

Grade 6 Play! Mathematics Online	
Question 13	
a) $250 \div 10 = 25 \checkmark$	
b) $81 \div 9 = 9 \checkmark$	a
c) $92 \div 12 = 7 \text{ r } 8 \checkmark$	b
d) $2000 \div 25 = 80 \checkmark$	с
e) 63 ÷ 7 = 9 ✓	d
f) $52 \div 4 = 13 \checkmark$	е
g) $457 \div 10 = 45,7$ or $45 \text{ r} 7 \checkmark$	f)
h) $30 \div 9 = 3 r 3 \checkmark$	g
Total <mark>8</mark> /8	

Question 15

Fill in the missing word/s in each statement.

- a) Co-ordinates tell us exactly where an object is on a grid or map. ✓
- b) A compass has a magnetic needle that always points North. $\checkmark\checkmark$
- c) The compass direction between South and East is
 South East (SE). ✓
- d) The main compass directions are North, South, East and West. ✓✓✓
- e) The triangle is in cell A1. \checkmark
- f) The circle is in cell C2. ✓
- g) The trapezium is in cell B3. ✓





Fill in the missing numbers.

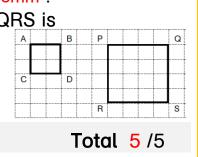
a) $\frac{7}{9} = \frac{28}{36} \checkmark (\times 4)$ b) $\frac{45}{90} = \frac{1}{2} \checkmark (\times 45)$ c) $\frac{1}{8} = \frac{125}{1000} \checkmark (\times 125)$ d) $\frac{76}{100} = \frac{19}{25} \checkmark (\times 4)$ e) $1\frac{7}{9} = \frac{16}{9} \checkmark$ f) $9\frac{11}{12} = \frac{119}{12} \checkmark$ g) $18\frac{2}{5} = \frac{92}{5} \checkmark$

Total 7 /7

Question 16

- A shape is reduced by a factor of
 Its perimeter is 64m and its area is 96m².
- a) What is the perimeter of the reduced shape? 64m ÷ 4 = 16m ✓
- b) What is the area of the reduced shape? 96m² ÷ 16 = 6m² ✓
- 2. Complete. (Assume each square on the grid has a length of 2 mm.)
- a) ABCD has been enlarged by a factor of 2 to result in PQRS. ✓
- b) The area of ABCD is $4mm \times 4mm = 16mm^2$.

c) The area of PQRS is 8mm × 8mm =64mm² ✓



Mental Maths | Term 4

Question 17

- 1. To mix 15/ of orange paint Tom needs 9/ of yellow paint and 6/ of red paint.
- a) How much yellow paint does Tom need to mix 30ℓ of orange paint?
 9ℓ × 2 = 18ℓ ✓
- b) How much red paint does Tom need to mix 7,5 ℓ of orange paint? $6\ell \div 2 = 3\ell$
- 2. Theo has a 527 page book. He has already read 17 pages of it. If he reads 34 pages a day how many days will it take him to read the remaining pages of his book? No. remaining pages = 527 - 17 = 510 510 ÷ 34 = 15 days ✓

Total 3/3

Question 19

True or False? If false, give the correct answer.

- a) 354 × 26 = 9 204. True. ✓
- b) Volume = $L \times B$. False. \checkmark V = $L \times B \times H$ or Area of a rectangle = $L \times B$
- c) 478 × 32 = 15 300. False.15 296 ✓
- d) $5 \times 4 \times 2 = 4 \times 5 \times 2$. True. \checkmark
- e) 126 is divisible by 3 and 5. False.
 126 is divisible by 3 but not 5. ✓
- f) 48 is a multiple of 6 and 16.
 True. ✓
- g) 212 and 452 are both multiples of 4. True. ✓

Total 7 /7

Question 18

1. Write each mixed number as an improper fraction.

a)
$$10\frac{7}{9} = \frac{97}{9} \checkmark$$

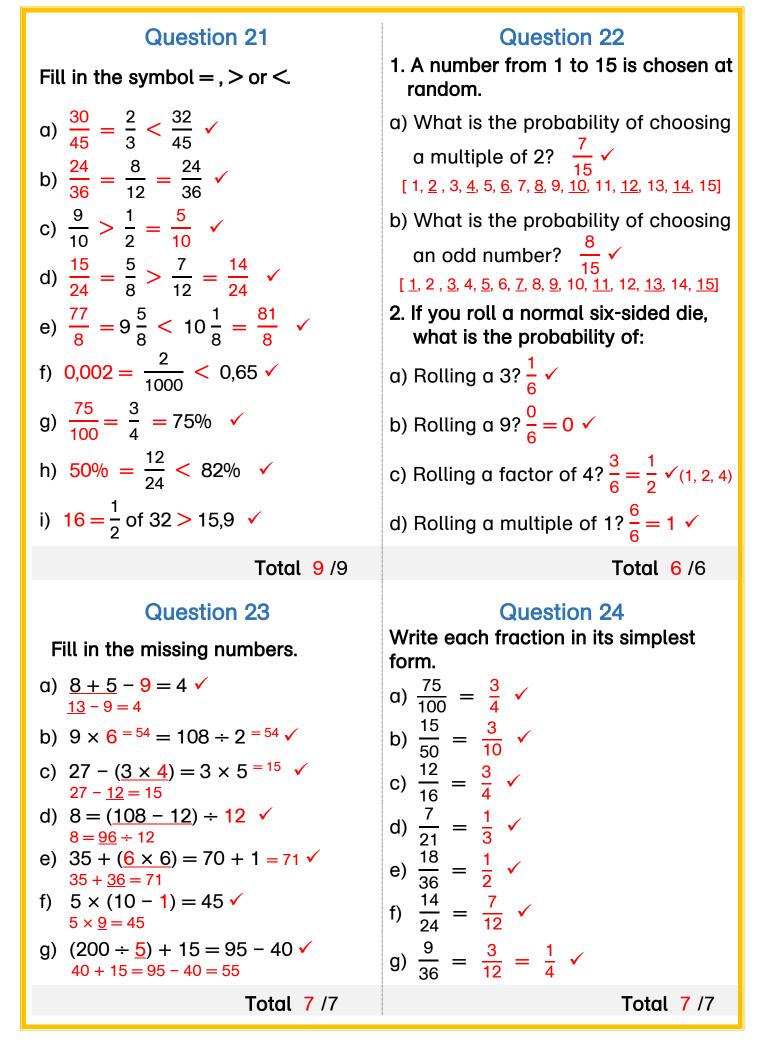
b) $6\frac{2}{5} = \frac{32}{5} \checkmark$
c) $8\frac{4}{7} = \frac{60}{7} \checkmark$
d) $15\frac{1}{9} = \frac{31}{9} \checkmark$

- 2. Find the LCD of:
- a) $\frac{2}{3}$ and $\frac{1}{27}$ LCD = 27 \checkmark
- b) $\frac{3}{4}$ and $\frac{1}{5}$ LCD = 20 \checkmark
- c) $\frac{7}{9}$ and $\frac{7}{4}$ LCD = 36 \checkmark
 - Total 7 /7

Question 20

Complete and write each answer as a mixed number.

a) $1\frac{2}{3} + 2\frac{2}{3} + 3 = 7\frac{1}{3}\checkmark$ b) $7\frac{2}{7} + 3\frac{1}{7} = 10\frac{3}{7}\checkmark$ c) $5\frac{3}{4} - 3\frac{2}{4} = 2\frac{1}{4}\checkmark$ d) $11\frac{8}{12} - 5\frac{5}{12} - 2\frac{1}{12} = 4\frac{2}{12}\checkmark$ e) $3\frac{2}{3} + 7\frac{1}{6} = 10\frac{5}{6}\checkmark$ (LCD is 6) f) $5\frac{11}{12} - 4\frac{2}{4} + 3 = 4\frac{5}{12}\checkmark$ (LCD is 12) g) $1\frac{1}{3} + 2\frac{6}{9} = 3\frac{9}{9} = 4\checkmark$ (LCD is 9) Total 7/7



Question 25

Write each decimal fraction as a percentage.

- a) 0,68 = <mark>68% √</mark>
- b) 0,05 = <mark>5% √</mark>
- c) 0,435 = <mark>43,5% ✓</mark>

Write each common fraction in decimal form.

a)
$$\frac{1}{8} = \frac{125}{1000} = 0,125 \checkmark$$

b) $\frac{14}{20} = \frac{7}{10} = 0,7 \checkmark$
c) $\frac{13}{10} = 1,3 \checkmark$

Total 6/6

Question 27

There are 6 blue balls, 7 green balls, 3 red balls and 1 yellow ball in a bag. I take one ball out at a time and then put it back afterwards.

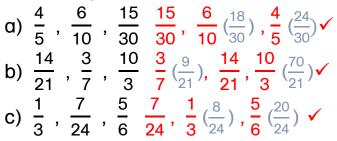
- a) How many outcomes are there? $6 + 7 + 3 + 1 = 17 \checkmark$
- b) What is the probability of taking out a green ball? $\frac{7}{17}$ \checkmark
- c) What is the probability of taking out a yellow or a red ball? $\frac{1+3}{17} = \frac{4}{17} \checkmark$
- d) What is the probability of taking out a purple ball? 0 ✓
- e) What is the probability of taking out a blue or a white ball?

 $\frac{6+0}{17} = \frac{6}{17} \checkmark$

Total 5 /5

Question 26

Arrange the following fractions in ascending order of size.



Complete.

a) $\frac{1}{8}$ of $72 = 9 \checkmark$ b) $\frac{7}{25}$ of $150 = 42 \checkmark$ c) $\frac{1}{4}$ of $92 = 23 \checkmark$

Total 6/6

Question 28

Thabo has 7kg of flour and 4kg of sugar. He uses 2,1kg of flour and 1,8kg of sugar to bake 1 batch of biscuits.

- a) How much flour does he have left? 7kg 2,1kg = 4,9kg ✓
- b) How much sugar does he have left? 4kg − 1,8kg = 2,2kg ✓
- c) How many more batches of biscuits can he make with the remaining flour and sugar? Which ingredient will he run out of first? 1 batch. He will run out of sugar first. ✓✓
- d) A batch of biscuits costs R75 to bake. He sells 1 batch for R165,50. How much profit does he make per batch?
 R165,50 R75 = R90,50 ✓

Total 5 /5

Question 29	Question 30
a) 23 × 34 = 782 √	a) 4 cm × 4 cm = 16 cm ² ✓
b) 151 × 2 = <mark>302</mark> g ✓	b) $48 \div 4 = 12 \checkmark$
c) 1 501 × 2 = $3002 \checkmark$	c) $568 \div 4 = 142 \checkmark$
d) $5 \div 5 = 1 \checkmark$	d) $(600 \div 40) - 15$ = 15 - 15 = 0 \checkmark
e) $100 \times 0 = 0 \checkmark$	e) $(10 + 8) \div 9 = 2 \checkmark$
f) $10 \div 0 = $ undefined \checkmark	f) $100 - 9 \times 9 = 19 \checkmark$
g) 1% of 3 000 = $30 \checkmark$	g) $8 \times 8 + 4 \times 4$ = $64 + 16 = 80 \checkmark$
h) 5 cm + 5 cm + 2,6 cm = $12,6$ cm \checkmark	h) $18 - 3 \times 4 = 18 - 12 = 6 \checkmark$
Total <mark>8</mark> /8	Total <mark>8</mark> /8
Question 31	Question 32
Question 31 a) 8,8 - 4,9 = 3,9 ✓	Question 32 a) (5 × 40) - 12 = 200 - 12 = 188 ✓
	a) (5 × 40) - 12
a) 8,8 − 4,9 = <mark>3,9 ✓</mark>	 a) (5 × 40) - 12 = 200 - 12 = 188 ✓ b) 56 ÷ 8 + 122
a) $8,8 - 4,9 = 3,9 \checkmark$ b) $0,03 \times 10 = 0,3 \checkmark$	a) $(5 \times 40) - 12$ = 200 - 12 = 188 \checkmark b) 56 ÷ 8 + 122 = 7 + 122 = 129 \checkmark
a) $8,8 - 4,9 = 3,9 \checkmark$ b) $0,03 \times 10 = 0,3 \checkmark$ c) $250 \text{ km} \div 5h = 50 \text{ km/h} \checkmark$	a) $(5 \times 40) - 12$ = 200 - 12 = 188 \checkmark b) 56 \div 8 + 122 = 7 + 122 = 129 \checkmark c) 11 × 13 = 143 \checkmark
a) $8,8 - 4,9 = 3,9 \checkmark$ b) $0,03 \times 10 = 0,3 \checkmark$ c) $250 \text{ km} \div 5h = 50 \text{ km/h} \checkmark$ d) $120 \text{ km/h} \times 2h = 240 \text{ km} \checkmark$	a) $(5 \times 40) - 12$ = 200 - 12 = 188 \checkmark b) 56 \div 8 + 122 = 7 + 122 = 129 \checkmark c) 11 × 13 = 143 \checkmark d) 16 × 15 = 240 \checkmark
a) $8,8 - 4,9 = 3,9 \checkmark$ b) $0,03 \times 10 = 0,3 \checkmark$ c) $250 \text{ km} \div 5h = 50 \text{ km/h} \checkmark$ d) $120 \text{ km/h} \times 2h = 240 \text{ km} \checkmark$ e) $3\ 000 \div 125 = 24 \checkmark$	a) $(5 \times 40) - 12$ = 200 - 12 = 188 \checkmark b) $56 \div 8 + 122$ = 7 + 122 = 129 \checkmark c) $11 \times 13 = 143 \checkmark$ d) $16 \times 15 = 240 \checkmark$ e) $30 \div 8 = 3 \text{ r } 6 \checkmark$
a) $8,8 - 4,9 = 3,9 \checkmark$ b) $0,03 \times 10 = 0,3 \checkmark$ c) $250 \text{ km} \div 5h = 50 \text{ km/h} \checkmark$ d) $120 \text{ km/h} \times 2h = 240 \text{ km} \checkmark$ e) $3\ 000 \div 125 = 24 \checkmark$ f) $4 \text{ mm} + 3 \text{ m} = 3,004 \text{ m} \checkmark$	a) $(5 \times 40) - 12$ $= 200 - 12 = 188 \checkmark$ b) $56 \div 8 + 122$ $= 7 + 122 = 129 \checkmark$ c) $11 \times 13 = 143 \checkmark$ d) $16 \times 15 = 240 \checkmark$ e) $30 \div 8 = 3 \text{ r } 6 \checkmark$ f) $57 \div 9 = 6 \text{ r } 3 \checkmark$

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