



TOM NEWBY SCHOOL EXAMINATION



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Subject	Maths	Examiner	Mrs S Naidoo
Date	12 June 2017	Total marks	75
Session	1	Duration	1 ½ hours
Grade	5	Moderator	Mrs M Fourie
Special instructions/ Equipment			
This assessment has been compiled using notes and information contained in the Tom Newby School resource material. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.			

Name:	Surname:	Class:
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QUESTION 1:

Choose the correct answer from the given choices.

1.1 The sum of thirty and fourteen is...

- a) Eighteen b) Forty-four
c) Four hundred and twenty d) Sixty-four

1.2 The smallest number that can be made with the digits 9, 5, 4, 7, 8 is...

- a) 45 789 b) 54 987
c) 45 897 d) 54 789

1.3 The value of the 7 in the number 687 324 is...

- a) 7 TTH b) 70 000
c) 700 d) 7 TH

1.4 83 285 rounded off to the nearest 1000 is:

- a) 84 000 b) 80 200
c) 80 000 d) 83 000

1.5 2 000ml = _____ ℓ

- a) 20 ℓ b) 200 ℓ
c) 2 ℓ d) 2000 ℓ

1.6 A polygon with nine sides is called a :

- a) nonagon
- b) pentagon
- c) decagon
- d) heptagon

1.7 A right angle measures:

- a) 180°
- b) 270°
- c) 90°
- d) 360°

1.8 $4 \frac{3}{4} \text{ l} = 4\ 000 \text{ ml} + \underline{\hspace{4cm}}$

- a) 250 ml
- b) 4 340 ml
- c) 750 ml
- d) 4 500 ml

$[8 \times \frac{1}{2} = 4]$

QUESTION 2:

Match column A with an answer from column B.

Write down only the letter in the table below.

	<u>COLUMN A</u>	<u>COLOUMN B</u>
2.1	Ascending order	a. 11 996
2.2	Quotient	b. Answer of a multiplication sum
2.3	Polygon	c. 5000
2.4	Quarter past eight	d. Arranging from lowest to highest
2.5	$\frac{3}{4}$ of an hour	e. Two quarters
2.6	$\underline{\hspace{2cm}} \div 4 = 9$	f. 500 ml
2.7	$\frac{1}{2} \text{ l}$	g. Closed figure with straight sides
2.8	$1996 = 10\ 000 = \underline{\hspace{2cm}}$	h. 15 minutes
2.9	25×200	i. Answer of a division sum
2.10	$\frac{4}{8} = \underline{\hspace{2cm}}$	j. 08:15
		k. 45 minutes
		l. 36

2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10
d	i	g	j	k	l	f	a	c	e

QUESTION 3:

State whether the following are true or false.

- 3.1 The factors of 28 are: 1, 2, 4, 8, 28 False
- 3.2 $125 \times 5 = \underline{725}$ False
- 3.3 $18\ 097 - 582 = 17\ 515$ True
- 3.4 $56 \times 2 = 112$ True
- 3.5 There are 2 quarters in a half True
- 3.6 One of four parts is called a fifth False

[6]

QUESTIONS 4: Operations

Calculate and show all working out.

- 4.1 $98\ 405 + 6\ 736 =$ (1) 4.2 $56\ 903 - 27\ 896 =$ (1)
- | | |
|---------------------------------------------------------------------|-----------------------------------------------------------------|
| $\begin{array}{r} 98\ 405 \\ + 6\ 736 \\ \hline 105141 \end{array}$ | $\begin{array}{r} 56903 \\ - 27896 \\ \hline 29007 \end{array}$ |
|---------------------------------------------------------------------|-----------------------------------------------------------------|

- 4.3 532 (1) 4.4 29 (2)
- | | |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| $\begin{array}{r} 532 \\ \times \quad 6 \\ \hline 3192 \end{array}$ | $\begin{array}{r} 29 \\ \times \quad 12 \\ \hline 58 \\ + 290 \\ \hline 348 \end{array}$ |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------|

- 4.5 79 (1 ½) 4.6 421 (1 ½)
- | | |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| $\begin{array}{r} 79 \\ \times \quad 32 \\ \hline 158 \\ + 2370 \\ \hline 2528 \end{array}$ | $\begin{array}{r} 421 \\ \times \quad 64 \\ \hline 1684 \\ + 25260 \\ \hline 26944 \end{array}$ |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|

	216		2	
4.7	$4\sqrt{864}$	4.8	$32\sqrt{64}$	
	-8		-64	
	-6	(2 ½)	-	(1 ½)
	-4			
	24			
	24			
	-			

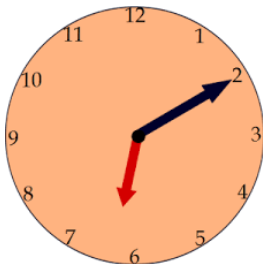
[12]

QUESTION 5: Time

- 5.1 Complete:
- | | | | |
|----------------------|---|-------------|-----|
| $2\frac{3}{4}$ hours | = | 165 minutes | (1) |
| 4 days | = | 96 hours | (1) |

5.2 Study the time on the clocks below and re-write as digital time.

a)



18:10



b)



20:15



(1)

5.3 Write the following digital times in words:

- a) 18:15 Quarter past six
- b) 21:45 Quarter to ten

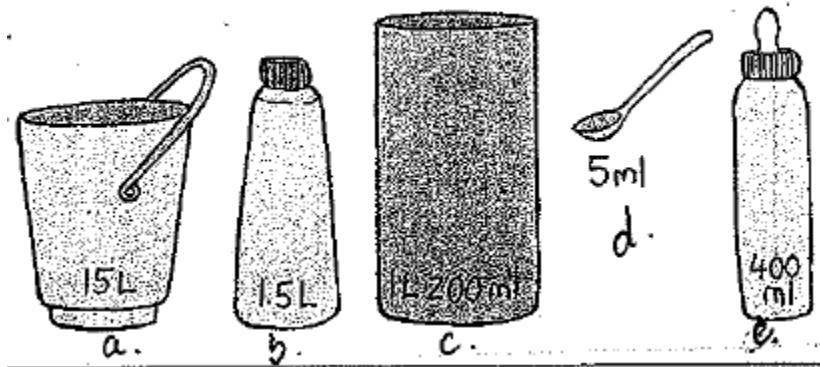
5.4 The digital times are 15 minutes slower than the actual time. Re-write the correct time.

- a) 15:55 16:10 (1)
- b) 07:45 08:00 (1)

[8]

QUESTION 6: Capacity

Study the capacities on the containers below and answer the questions.



6.1 Which container has the greatest capacity? **c** (1)

6.2 Which container holds less than $\frac{1}{4}l$? **d** (1)

6.3 Re-write the following capacities as millilitres. (2)

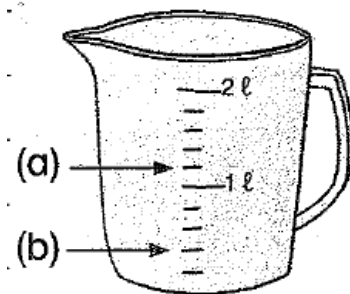
a) $15l = 15\,000\text{ ml}$

b) $5\frac{1}{4}l = 5\,250\text{ ml}$

6.4 Arrange the capacities of the items in ascending order. (1)

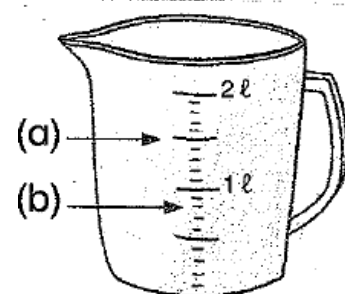
$5\text{ml}, 400\text{ml}, 1l, 200\text{ml}, 1.5l, 15l$ OR d, e, c, b, a

6.5 Write the capacity of each jug in millilitres.



a) **$1\,200\text{ ml}$** (½)

b) **400 ml** (½)



a) **$1\,500\text{ml}$** (½)

b) **800 ml** (½)

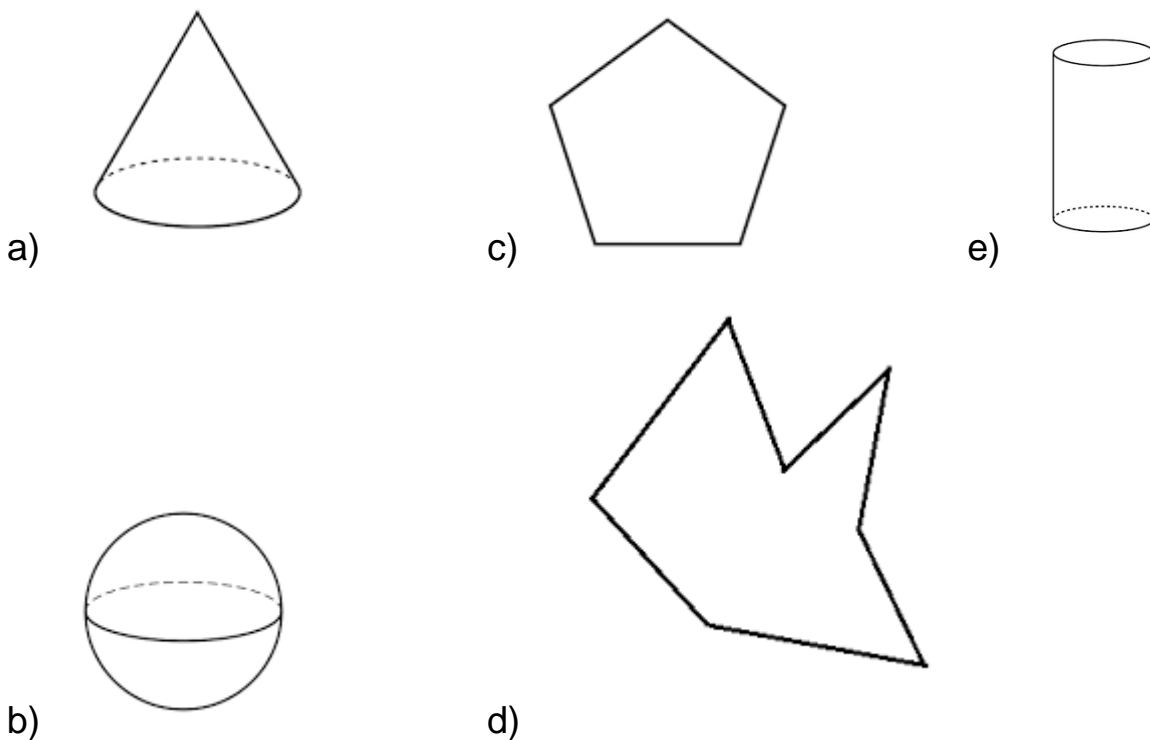
6.6 Round off the capacities in the table below (3)

<u>ℓ and mL</u>	<u>Round off to 10mℓ</u>	<u>Round off to 100mℓ</u>
5ℓ 546mℓ	5 500mℓ	5 500mℓ
12ℓ 063mℓ	12 060mℓ	12 100 mℓ
281ℓ 400mℓ	281 400mℓ	281 400mℓ

[10]

QUESTION 7: 2D and 3D SHAPES

Study the shapes below and complete the table. (5)

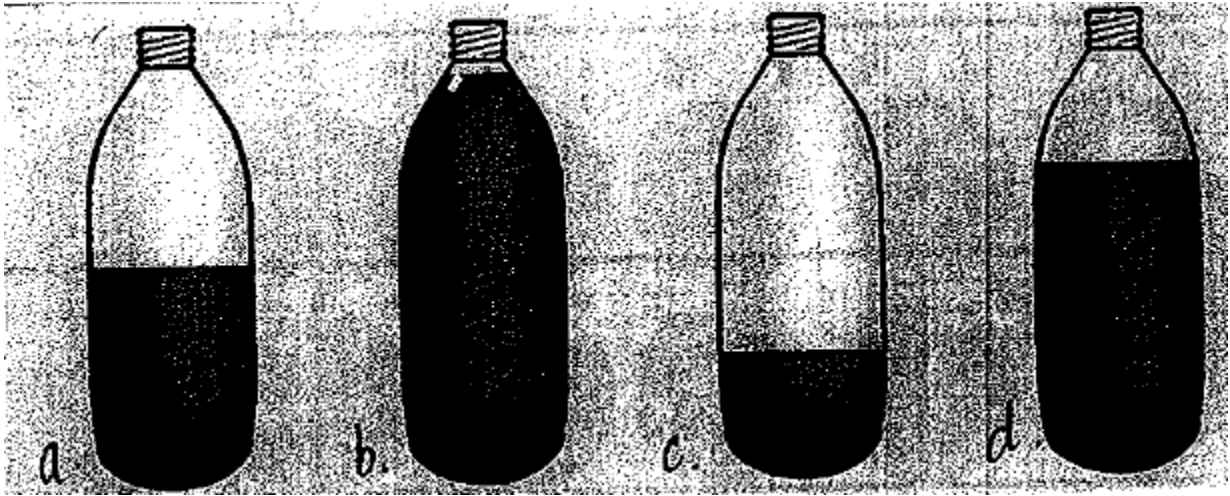


SHAPE	Is it a 2D or 3D shape?	Name of Shape
a)	3D	Cone
b)	3D	Sphere
c)	2D	Pentagon
d)	2D	Heptagon/Septagon
e)	3D	Cylinder

[10 × ½ = 5]

QUESTION 8: Common Fractions

8.1



- a) Which bottle is half full? **a** (1)
- b) Which bottle is a quarter full? **c** (1)
- c) Which bottle is $\frac{3}{4}$ l **d** (1)
- d) Which bottle of cool drink will fill a 750mℓ jug? **d** (1)

8.2 Complete:

$$\frac{1}{2} = \frac{2}{4} \quad (1)$$

$$\frac{4}{4} = \frac{6}{6} \text{ or } \frac{9}{9} \text{ (learner choice)} \quad (1)$$

8.3 $\frac{9}{18} + \frac{6}{18} = \frac{15}{18} \quad (1)$

$$\frac{17}{25} - \frac{9}{25} = \frac{8}{25} \quad (1)$$

8.4 Find an equivalent fraction for: $\frac{3}{9}$

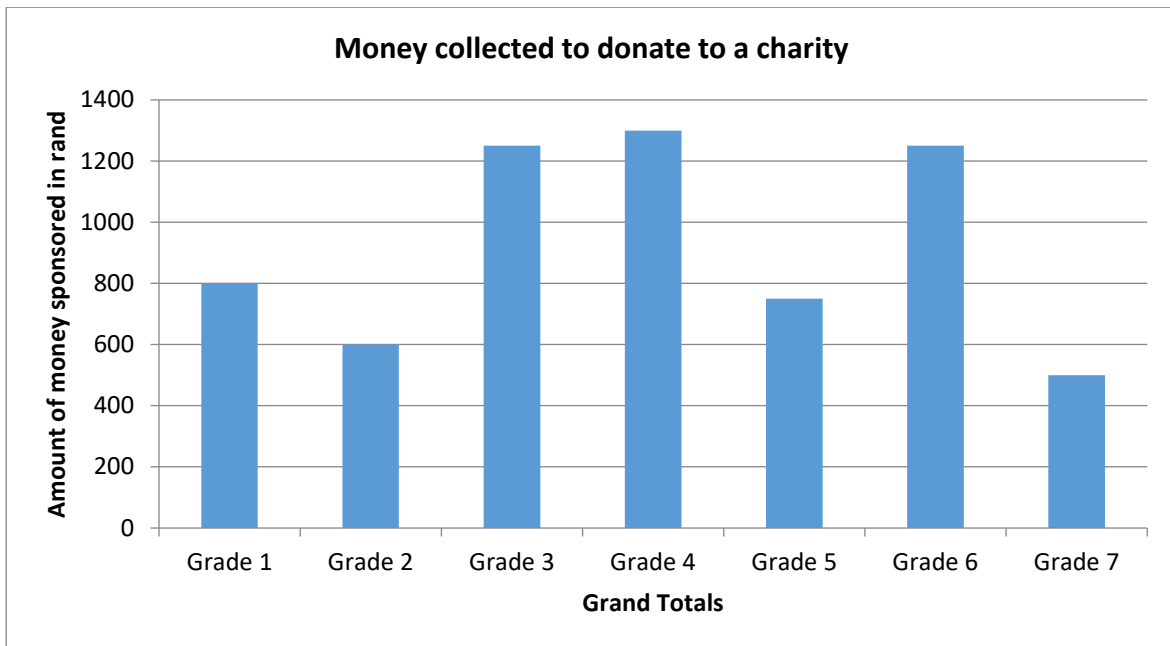
e.g. $\frac{3}{9} = \frac{1}{3} / \frac{9}{27}$ (Learner choice) (1)

8.5 Find $\frac{3}{4}$ of 24 = **18** (1)

[10]

QUESTION 9:

Tom Newby School raises money for a different charity each term. The following graph represents the money raised during a sponsored walk. Study the graph and answer the questions. The amounts are rounded to the nearest R50.



9.1 Which grade collected the most money? **Grade 4** (1)

9.2 Which grade collected the least? **Grade 7** (1)

9.3 How much more money did the Grade 4's collect than the Grade 7?

R800 (1)

9.4 What is the mode of the graph? **R1250** (1)

9.5 What is the total amount of money collected by the foundation phase learners? (Show working out) (2)

R800

600

+1250

R2650

QUESTION 10: Problem Solving

Complete an open number sentence and full calculation.

10.1 A large crowd is expected at a rock concert. There are 53 782 tickets for sale. If 21 250 tickets have already been sold, how many tickets are left?

53782 - 21250 = □ (1)

53782

-21250

32532

(1)

10.2 Mr Jackson saves R680 for six months. How much will he save for 18 months?

$$R680 \times 3 = \square \quad (1)$$

R680

× 3

R2040

(1)

[4]

TOTAL: 75 Marks