



# TOM NEWBY SCHOOL EXAMINATION



1.

## MEMORANDUM

<b>Subject</b>	<b>Maths</b>	<b>Examiner</b>	<b>Mrs S. Naidoo</b>
<b>Date</b>	<b>11 June 2018</b>	<b>Total marks</b>	<b>75</b>
<b>Session</b>	<b>1</b>	<b>Duration</b>	<b>1 <math>\frac{3}{4}</math> hour</b>
<b>Grade</b>	<b>5</b>	<b>Moderator</b>	<b>Mrs M. Fourie</b>

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.

<b>Name:</b>	<b>Surname:</b>	<b>Class:</b>
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Come aboard the movie set and join Ferdinand and his friends!



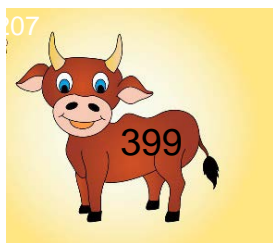
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### QUESTION 1: MENTAL

Help Ferdinand to choose the correct answer from the given choices. Write only the **alphabet/ letter** of your choice in the table at the end of the section.

1.1 Which bull represents the missing number in the sequence.

\_\_\_\_\_, 208, 199, 190.



A

B

C

D

1.2 Valiente weighs 1 332 kg. Round off his weight to the nearest 100.

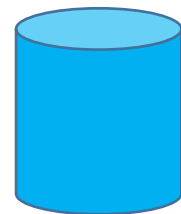
A) 1 300 kg

B) 1 330 kg

C) 1 000 kg

D) 13 000 kg

- 1.3 If Bone's weight is half of Valiente's, what does Bones weigh?  
 A) 2 664 kg      B) 266      C) 1 660 kg      D) 666 kg
- 1.4 Senor Mureno rounded up the distance of 842 to the nearest 5. His answer is:  
 A) 842      B) 845      C) 847      D) 840
- 1.5 2 .25 kg is the same as:  
 A) 2000 g + 250 g      B) 225 kg      C) 2kg + 25 g      D) 2 000 kg + 250 g
- 1.6 El Primero left home at 10:15 and reached Casa Del Toro at 15:30.  
 How long did he travel?  
 A)  $6 \frac{1}{2}$  hours      B)  $5 \frac{1}{2}$  hours      C)  $5 \frac{1}{4}$  hours      D)  $3 \frac{1}{4}$  hours
- 1.7 This set lists all the factors of 18:  
 A) 1,2,3,6,9,18      B) 1,2,3,18      C) 1,3,9,18      D) 1,2,3,8,18
- 1.8 A jug in the China Shop has the same capacity as a kitchen kettle. What is the amount of liquid it can take?  
 A) 1.7 Kℓ      B) 1.7 ℓ      C) 107 ℓ      D) 1.7 mℓ
- 1.9 5 000 mℓ = \_\_\_\_\_ ℓ  
 A) 50 ℓ      B) 5 ℓ      C) 5 000 ℓ      D) 50 000 ℓ
- 1.10 Angus smashed the following object during practice time.



This shape is called a :

- A) Cylinder      B) Cone      C) Pyramid      D) Sphere

Instruction: Choose the correct answer and write down only the alphabet/letter of your choice for each number in the table below.

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
C	A	D	D	A	C	A	B	B	A

[10]

## QUESTION 2: NUMBER CONCEPTS

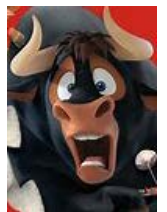
Senor Mureno had to pay the China Shop owner for the damages that Ferdinand caused.



Study the amounts on the cheques and answer the questions.

A

<b>MADRID BANK</b>	20/05/2018
Pay <u>Mrs. Jackie Chen</u>	
<u>Eleven thousand seven hundred and fifty-two</u>	
<u>rand</u>	<b>R11 752</b>
	<i>M. Delavega</i>



B

<b>MADRID BANK</b>	20/05/2018
Pay <u>Mrs. Jackie Chen</u>	
<u>Two thousand eight hundred and forty eight</u>	
<u>rand</u>	<b>R 2 848</b>
	<i>M. Delavega</i>

- 2.1 Write in the amount in digits for cheque A. (complete on the cheque) (1)
- 2.2 Write in the amount in words for cheque B. (complete on the cheque) (1)
- 2.3 What is the **total** amount that Senor Mureno has to pay? (1)

R14 600

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- 2.4 **Round off** the amount for Cheque A to the nearest 100. (1)

R11 800

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- 2.5 **Round off** the amount for Cheque B to the nearest 5 (1)

R2 850

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**[5]****QUESTION 3: OPERATIONS**

Nina received the following activity for homework. See if you are able to do it as well.

3.1

$$\begin{array}{r} 96\,704 \\ - 21\,323 \\ \hline 75\,381 \end{array} \quad (1)$$

3.2

$$\begin{array}{r} 984 \\ \times \quad 7 \\ \hline 6888 \end{array} \quad (1)$$

3.3

$$\begin{array}{r} 615 \\ \times 34 \\ \hline 2460 \\ + 18450 \\ \hline 20910 \end{array} \quad (3)$$

3.4

$$\begin{array}{r} 113 \text{ r. } 5 \\ 6 \overline{) 683} \\ \underline{-6} \phantom{0} \\ \phantom{0} \bullet 8 \\ \underline{-6} \phantom{0} \\ \phantom{00} 23 \\ \underline{-18} \\ \phantom{000} 5 \end{array} \quad (4)$$

3.5

$$\begin{array}{r} 20 \text{ r. } 8 \\ 12 \overline{) 248} \\ \underline{-24} \phantom{0} \\ \phantom{00} 8 \\ \underline{-8} \\ \phantom{000} 0 \end{array} \quad (3)$$

3.6 Complete :  $112 + (7 \times 3) \div 7$

$$= \underline{112 + 21 \div 7}$$

$$= \underline{115} \quad (1)$$

**[13]**

**QUESTION 4: CAPACITY AND FRACTIONS**

Nina and her Dad uses  $\frac{1}{2}$  litre of milk for their porridge each day and  $\frac{1}{4}$  litre for coffee.



4.1 How much milk do they use for their porridge altogether?

Write the answer in **millilitres**. 500 ml (1)

4.2 How much milk do they use for coffee?

Write the answer in **millilitres**. 250 ml (1)

4.3 How much milk is that altogether? 750 ml (1)

4.4 Convert the total amount (answer from 4.3) to litres. 0.750 l (1)

4.5 How much milk will be left over from a 2 l bottle after the family has used the milk for porridge and coffee? 1 l 250 ml (1)

Angus and Valiente decided to enter the bull fighting competition but has to complete the following fraction answers. Help them using your speed and accuracy to get their entry forms. **Simplify** where necessary.

$$4.6 \quad \frac{17}{24} + \frac{8}{24} = \frac{25}{24} = 1 \frac{1}{24}$$

$$4.7 \quad \frac{82}{95} - \frac{17}{95} = \frac{65}{95} = \frac{13}{19}$$



4.8 Write down an **equivalent fraction** for each of the following:

(learner choice)

$$\frac{1}{2} = \underline{\hspace{2cm}} \quad \frac{9}{27} = \underline{\hspace{2cm}} \quad (2)$$

4.9 Convert the following improper fractions to mixed numbers.

(2)

$$\frac{15}{8} = 1 \frac{7}{8}$$

$$\frac{37}{4} = 9 \frac{1}{4}$$

4.10 Convert the following mixed numbers to improper fractions.

(2)

$$3 \frac{2}{4} = \frac{14}{4}$$

$$5 \frac{9}{12} = \frac{69}{12}$$

**[15]**

### QUESTION 5: TIME AND LENGTH

5.1 Ferdinand and his friends visited Pamplona in Spain to take part in a race.

The distance they completed in the race was **875 metres**. The times are shown in the table below.

Study the table and answer the questions that follow.

BULL	TIME
Ferdinand	3 mins
Angus	4 mins
Guapo	300 seconds
Valiente	195 seconds



5.1.1 Who completed the race first ? Ferdinand (1)

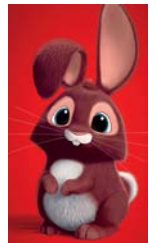
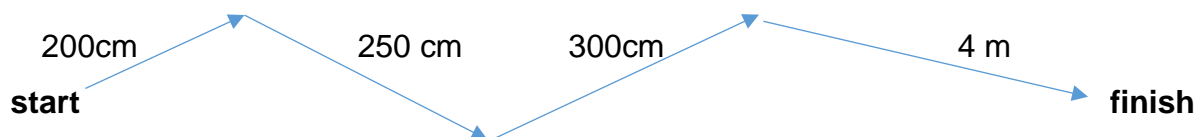
5.1.2 Who completed the race last ? Guapo (1)

5.1.3 Complete : 3 mins = 180 secs (1)

300 secs = 5 mins (1)

5.1.4 Convert 875 metres to the nearest km : 1 km. (1)

5.2 Bunny also took part in the Spanish Easter Hop race. Study the distances he hopped and answer the questions.



- 5.2.1 Convert : 200 cm = 2 m (1)  
 300 cm = 3 m (1)  
 4 m = 400 cm (1)

5.2.2 Calculate the **total distance** that Bunny covered during this race from start to finish. Show all working out. (2)

$$200 \text{ cm} + 250 + 300 + 400 = \square \quad \text{Or} \quad 2 \text{ m} + 2.5\text{m} + 3.0\text{m} + 4.0\text{m} = \square$$

200 cm	2.0 m
250	2.5
300	3.0
+ 400	+ 4.0
1 150 cm	11.5 m

[10]

### QUESTION 6: SYMMETRY

Study the image of Ferdinand's name and answer the questions.



6.1 State two letters in his name that are symmetrical? D and I/A (2)

6.2 Identify whether the items from the China shop are symmetrical or not.

Circle the correct answer below each one.



YES / NO



YES / NO



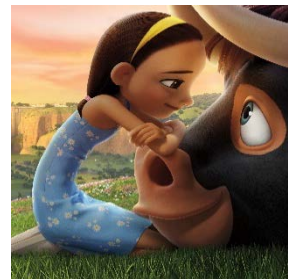
YES / NO

(3)

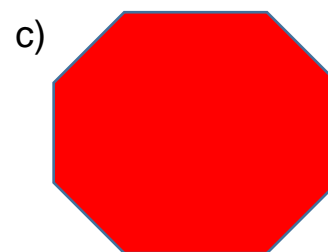
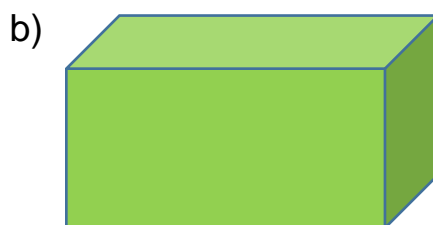
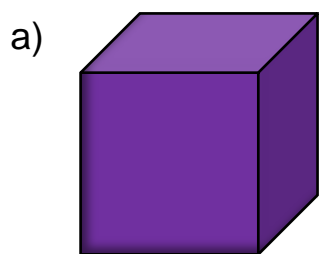
[5]

**QUESTION 7: SHAPES**

Nina and Ferdinand were playing in the field and forgot about her homework! Help her to complete the following activity before she gets into trouble.



Study the shapes below and answer the questions.



7.1 Name the images above: a )           Cube           (1)

b)           Rectangular Prism           (1)

c)           Octagon           (1)

7.2 Which image is 2D ?           C           (1)

7.3 Write down a **similarity** between image **a** and **b** ? (1)

          (Any) Both have six sides / 12 edges / 8 vertices          

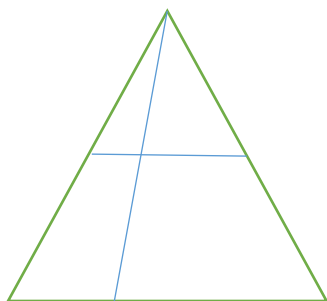
7.4 Write down a **difference** between image **a** and **b** ? (1)

          Faces are all squares in a / Rectangles and squares in b          

7.5 Name the type of **angle** that you will find on image **a** and **b**. (1)

          Right angles          

7.6 How many triangles can you see in the diagram below?           6           (1)





### QUESTION 8: DATA HANDLING

Nina counted the number of items that Ferdinand broke in the China Shop.

She drew up the following tally chart to make it easier to count.

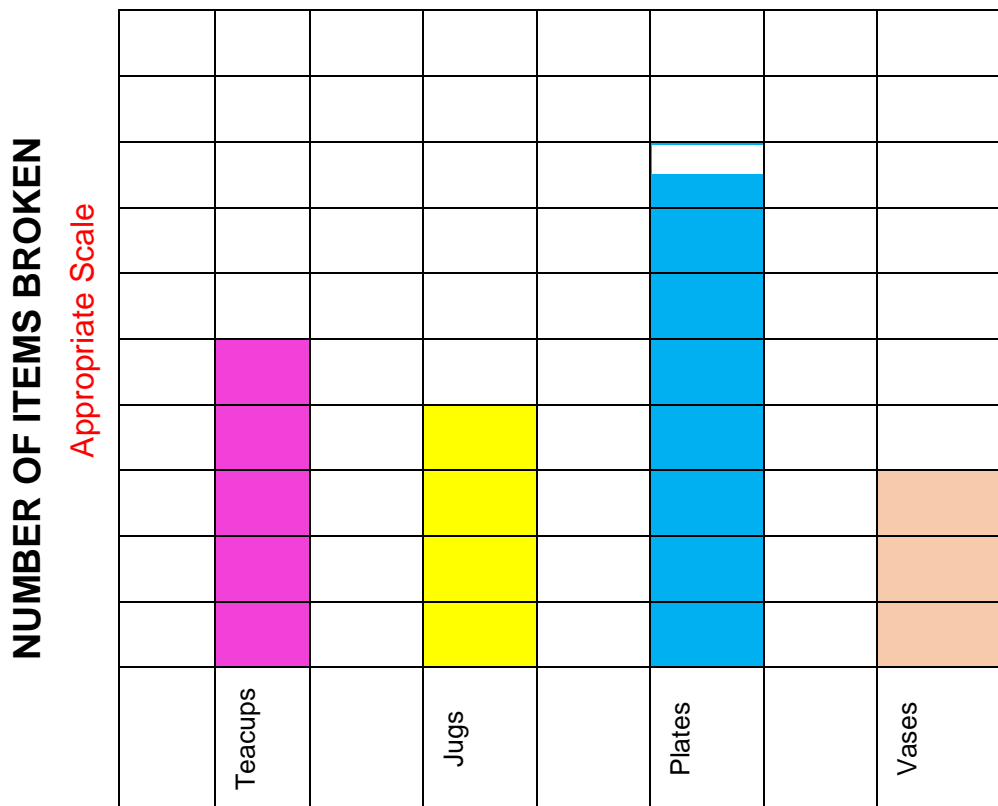
Use the tally chart and draw up a **bar graph to represent this information.**

A BULL IN THE CHINA SHOP!

ITEM	TALLY	TOTAL
Tea cups		15
Jugs		12
Plates		23
Vases		9



### A BULL IN THE CHINA SHOP!



### TYPES OF ITEMS

(6)

8.1 How many items did Ferdinand break altogether ? 59

(1)

8.2 How many more plates than jugs did he break ? 11

(1)

8.3 What is the mode of the graph? Plates

(1)

**TOTAL : 75 MARKS**

**[9]**