

DEPARTMENT FOR CURRICULUM,  
LIFELONG LEARNING AND EMPLOYABILITY  
Directorate for Learning and Assessment Programmes  
Educational Assessment Unit

**SPECIMEN**

**Year 6**

**MATHEMATICS**

**TIME: 1 hr 15 min**

Name: \_\_\_\_\_

Class: \_\_\_\_\_

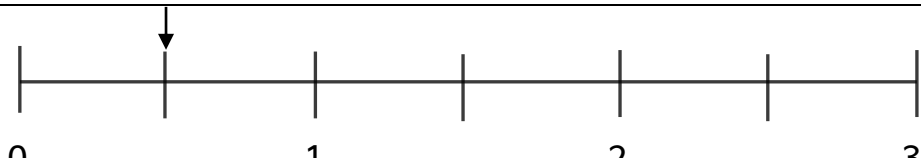
**Section A**

**1. Work out**

|    |                                       |   |
|----|---------------------------------------|---|
| a) | i) $45 + \square = 100$               | ii) $5863 + 408 = \square$                  |
| b) | i) $590 - 417 = \square$              | ii) $7.5 - \square = 5.25$                  |
| c) | i) $250 \times 9 = \square$           | ii) $3.4 \times 10 = \square$               |
| d) | i) $41 \div 6 = 6 \text{ r } \square$ | ii) $38 \div 4 = 9 \frac{\square}{\square}$ |
| e) | i) $6 \times 3 = \square + 10$        | ii) $14 \times 6 = 28 \times \square$       |

(5 x 2 marks = 10 marks)

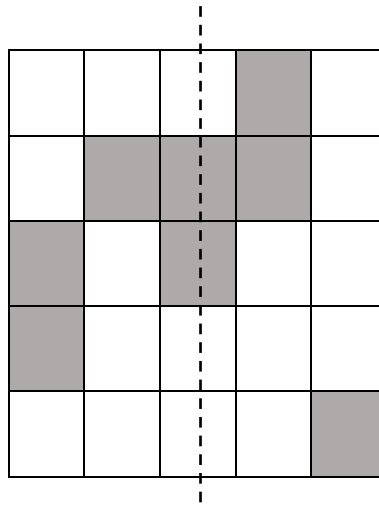
## 2. Complete

|    |   |
|----|---|
| a) | 25, 50, 75, <input type="text"/> , <input type="text"/> , 150   |
| b) | <p><b>Round to the nearest thousand:</b></p> <p>i. 2, 480 <math>\longrightarrow</math> <input type="text"/></p> <p>ii. 19, 502 <math>\longrightarrow</math> <input type="text"/></p>  |
| c) | <p style="text-align: center;"> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> </p> <p>Use the digits to make:</p> <p>a) A multiple of 5 &gt; 40</p> <p style="text-align: center;"><input type="text"/> <input type="text"/></p> <p>b) 3-digit odd number &lt; 400</p> <p style="text-align: center;"><input type="text"/> <input type="text"/> <input type="text"/></p> |
| d) |  <p>i. The arrow is pointing at <input type="text"/></p> <p>ii. Mark with an arrow (<math>\downarrow</math>) 2.75 on the number line.</p>   |
| e) | <p><b>Write the value of the underlined number:</b></p> <p>i. <u>2</u>1, 275 <math>\longrightarrow</math> <input type="text"/></p> <p>ii. <u>1</u>35,763 <math>\longrightarrow</math> <input type="text"/></p>  |

(5 x 2 marks = 10 marks)

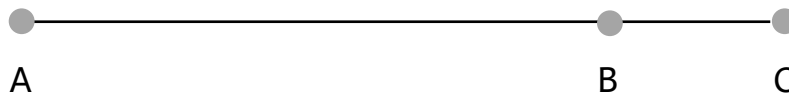
**Section B**

3. Shade more squares to make the grid **symmetrical**.




(4 marks)

4. The **distance** from point **A** to point **C** is **8 m**.



The distance from point **A** to point **B** is **6.4 m**.

a) Dan says: Point A is **6400 cm** away from point B. 

Dan is **not correct** because

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b) What is the **distance** from **B** to **C**?

here. Show your working

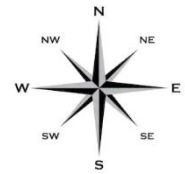
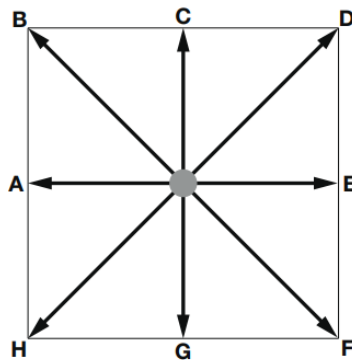
(4 marks)

5. Tick (✓) True or False:

|   | True | False |
|---|------|-------|
| i. The cuboid has 6 square faces.                         |      |       |
| ii. The square and the rectangle are both quadrilaterals. |      |       |
| iii. A triangle has 2 right angles.                       |      |       |
| iv. The rectangle has no curved lines.                    |      |       |

(4 marks)

6. Look carefully at the image below:



a) John is at the centre **facing C**.

**What angle** does he need to turn to **face F clockwise**?

b) Ann is at the centre **facing D**.

Then Ann turns **clockwise** to **face E**.

The angle Ann turns is (**an acute, an obtuse, a right**) angle.

(4 marks)

7. Match:

- |        |   |                |
|--------|---|----------------|
| 0.04 ● | ● | $\frac{6}{25}$ |
| 0.3 ●  | ● | $\frac{2}{50}$ |
| 0.24 ● | ● | $\frac{3}{10}$ |
| 0.40 ● | ● | $\frac{2}{5}$  |

(4 marks)

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8. Luke has €20,000 saved in a bank.

a) The car costs  $\frac{1}{5}$  of the saved money.

i. How much money does he spend on the car?

Show your working here.

€

ii. Luke pays €500 each month for the car.

How many months does it take Luke to pay for the total amount of the car?

Show your working here.

months

(4 marks)

9. The table below shows the **number of swimmers** in the 3<sup>rd</sup> week of May at the National pool.

|          | Sun | Mon | Tue | Wed | Thur | Fri | Sat |
|----------|-----|-----|-----|-----|------|-----|-----|
| adults   | 12  | 8   | 10  | 6   | 4    | 15  |     |
| children | 15  | 5   | 6   | 4   | 8    | 12  | 20  |

a) The day **most children** go to the National pool is on .

b) What is the total number of **children** that go to the National pool during the week?

**Show your working here.**

children

c) The **total number of adults** that go to the National pool is 80.

How many **adults** go to the National pool on **Saturday**?

**Show your working here.**

adults

(6 marks)

10. In a fruit bowl there are different fruits.

a) There are some apples, bananas, and oranges.

- For every apple, there are 4 bananas.
- For every 2 bananas, there is 1 orange.
- There are 21 fruits in the fruit bowl.

How many oranges are there?




Show your working here.

oranges

b) In a bowl there are 18 fruits.

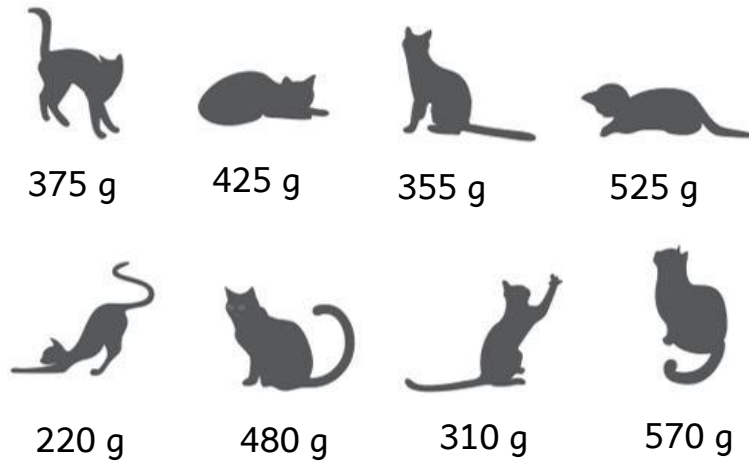
2 of the fruits are oranges.

Tick (✓) the grandchild who is saying the correct fraction of oranges in the fruit bowl.

|   |   |   |
|---|---|---|
| <p>Each grandchild gets <math>\frac{1}{5}</math> of the sweets</p>                  | <p>Each grandchild gets <math>\frac{5}{6}</math> of the sweets</p>                  | <p>Each grandchild gets <math>\frac{1}{9}</math> of the sweets</p>                    |
|  |  |  |
| <p>Lisa</p>   | <p>Fred</p>   | <p>Tom</p>  |
| <p>( )</p>  | <p>( )</p>  | <p>( )</p>  |

(6 marks)

11. The picture shows the masses of eight cats.



a) How much lighter than a kg is the heaviest cat?

**Show your working here.**

g

b) Complete the Carroll Diagram:

|       | odd                 | even                |
|-------|---------------------|---------------------|
| _____ | 375 g, 425 g, 355 g | 310 g, 220 g, 480 g |
| _____ | 525 g               | 570 g               |

(6 marks)



12. Here is a part of the morning bus timetable from Valletta to Ċirkewwa.

|          | Bus A | Bus B | Bus C | Bus D |
|----------|-------|-------|-------|-------|
| Valletta | 09:35 |       | 11:23 | 12:17 |
| Mosta    | 09:50 | 10:44 |       | 12:32 |
| Ċirkewwa | 10:30 | 11:24 | 12:18 |       |

a) Complete the bus timetable.

b) Ana is in Valletta on Monday morning.

At 12 minutes to 11, she is at the bus stop.

Tick (✓) the first bus Ana can take to go to Ċirkewwa.

( ) Bus A      ( ) Bus B      ( ) Bus C      ( ) Bus D

c) When Bus D leaves Mosta it has a delay due to an accident.

It arrives at Ċirkewwa one and a quarter of an hour later.

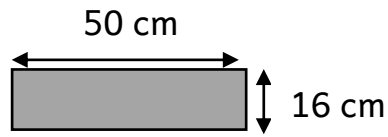
At what time is Bus D at Ċirkewwa?

Show your working here.

(6 marks)

13. Kate buys some rectangular tiles.

Each tile measures 16cm by 50 cm.



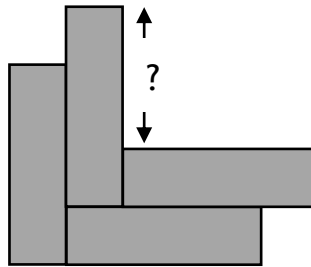
a) Find the **area** of one tile.

Show your working here.



b) Kate makes this design

with 4 rectangles.



i. Find the **missing length** marked on the diagram.

Show your working here.



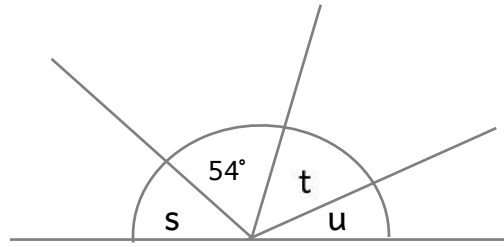
ii. Find the **perimeter** of the design.

Show your working here.



(6 marks)

14.



a) Angle  $s$  is  $9^\circ$  greater than the given angle.

Find angle  $s$ .

Show your working here.

$$s = \underline{\hspace{2cm}}^\circ$$

b) Angle  $t$  is  $11^\circ$  greater than angle  $u$ .

Find angle  $u$  and angle  $t$ .

Show your working

$$u = \underline{\hspace{2cm}}^\circ \qquad t = \underline{\hspace{2cm}}^\circ$$

(6 marks)

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**END OF EXAMINATION**

|               |      |         |       |   |           |
|---------------|------|---------|-------|---|-----------|
| Marks' Scheme | Nos. | 1 (a-e) | 5 x 2 | = | 10        |
|               |      | 2 (a-e) | 5 x 2 | = | 10        |
|               |      | 3 - 8   | 6 x 4 | = | 24        |
|               |      | 9 - 14  | 6 x 6 | = | 36        |
|               |      |         | TOTAL |   | <u>80</u> |