

END OF PRIMARY BENCHMARK

2017

SECOND SESSION

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

1. Work out.

a) $445 + 265 = \underline{\hspace{2cm}}$ <div style="text-align: center;"><input type="text"/></div>	b) $1673 - 211 = \underline{\hspace{2cm}}$ <div style="text-align: center;"><input type="text"/></div>
c) $16 \times 70 = \underline{\hspace{2cm}}$ <div style="text-align: center;"><input type="text"/></div>	d) $3060 \div 15 = \underline{\hspace{2cm}}$ <div style="text-align: center;"><input type="text"/></div>

(4 marks)

2. I am a **5-digit number**.

Follow the clues to guess what number I am and use **all** the digits **4, 6, 7, 8** and **9**.

Clues:

- The **digit 6** is in the **Hundreds place**.
- I am an **odd number**.
- The digit in the **Units place** is a **square number**.
- When I am rounded to the **nearest thousand** I become **79,000**.

I am .

(4 marks)

3a) Circle the numbers which together make $438 \cdot 5$.

4	3	8	$\frac{5}{10}$
40	30	80	$\frac{5}{100}$
400	300	800	$\frac{5}{1000}$

b) Use **all** these number cards to write a **6-digit number**.

600	1000	200 000	5
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Give your answer in **figures**.

c) Circle the **odd one out**.

i) $1 \cdot 6$ $1 \frac{6}{10}$ $1 \cdot 60$ $1 \frac{6}{100}$

ii) $38 \frac{1}{4}$ $38 \cdot 14$ $38 \cdot 25$ $38 \frac{25}{100}$

(4 marks)

4. Kris saves some of his money in a money box.

In this money box, he has **7 coins** which total **€2•60**.

a) List **7 coins** that add up to **€2•60**.

_____, _____, _____, _____, _____, _____, _____

b) Grandpa gives Kris **double the money** he has saved so far.
How much money does grandpa give Kris?

Show your
working here.

€

c) How much money does Kris have now?

Show your
working here.

€

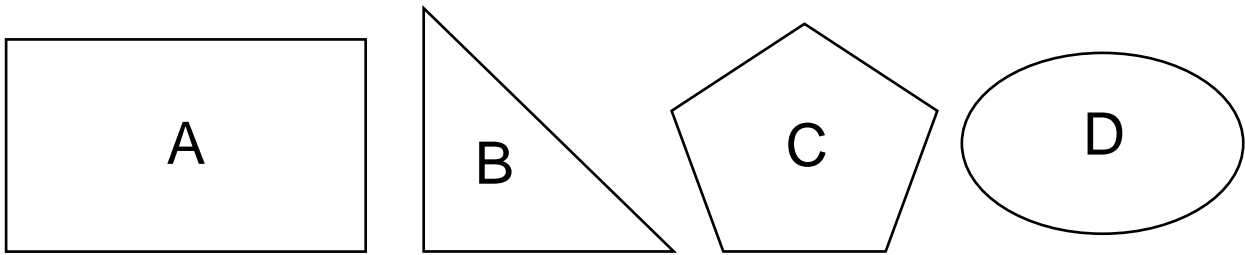
d) Kris wants to buy a book that costs **€10**.

Kris needs to save € more to buy the book.

Show your
working here.

(4 marks)

5. Look at these shapes.



Circle the correct answers in the brackets.

a) Shape A has (3, 4, 5) angles.

These angles are **all** (right, obtuse, acute) angles.

b) The angles in Shape A together add up to (90° , 180° , 360°).

c) Shape (B, C, D) has **no angles**.

d) Shape (B, C, D) has **one right angle** and **two acute angles**.

(5 marks)

6. Look carefully at the map of a country.

A, B, C, D, E and F are cities.

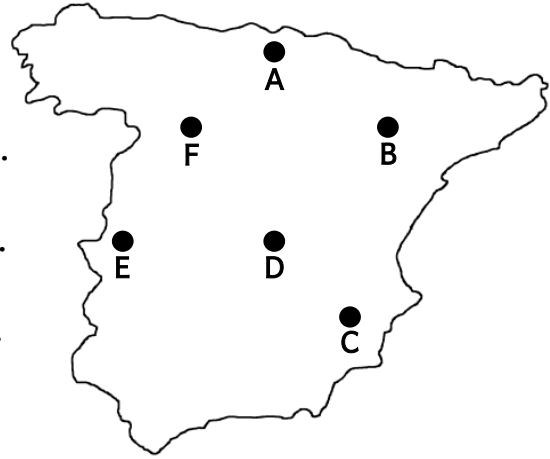


a) Fill in with directions.

i) City F is _____ of City D.

ii) City C is _____ of City D.

iii) City F is _____ of City A.



b) Fill in with A, B, C, D, E or F.

City _____ is West of City _____ .

(5 marks)

7. Fill in to make correct calculations.

a)

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 ×

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 =

8	1
---	---

b)

--	--

 ×

--

 =

1	0	0
---	---	---

c)

--	--

 ×

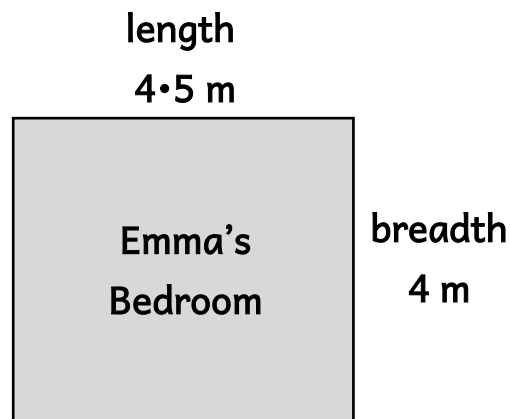
7

 =

	6	8
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(5 marks)

8. The rectangle below represents the floor in Emma's bedroom.



a) Work out the **perimeter** of the floor in Emma's bedroom.

Show your working here.

m

b) Work out the **area** of this floor.

Show your working here.

m²

c) There is a carpet in Emma's bedroom.

The **area** of the carpet is **12 m²**.

Work out the **length** and the **breadth** of the carpet.

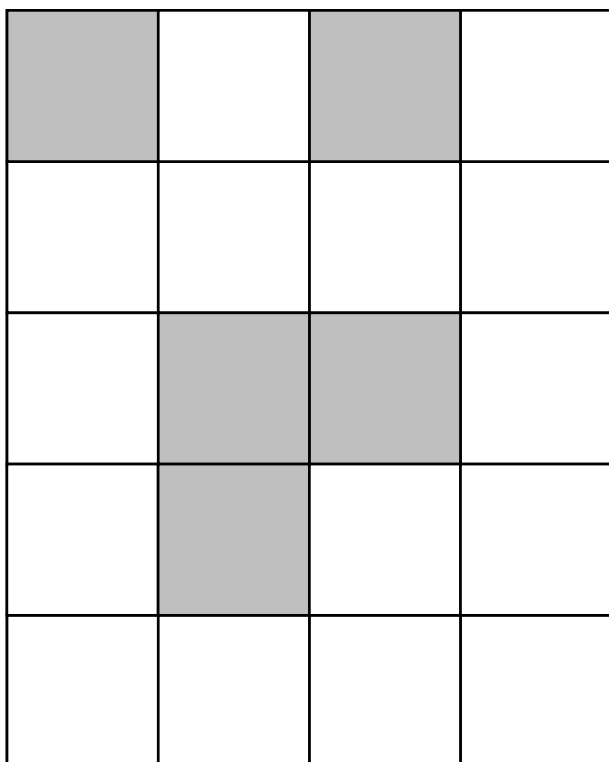
Length m Breadth m

(5 marks)

9. Fill in correctly.

a) $48\% = \frac{48}{\square} = 0.\underline{\quad}\underline{\quad}$

b) Here is a rectangle with 5 identical squares shaded inside it.



i) What fraction of the rectangle is shaded?
Give your answer in its **simplest form**.

ii) Shade more squares to have 60% of the rectangle shaded.

(5 marks)

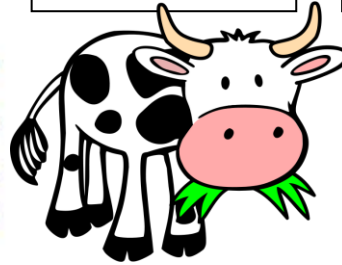
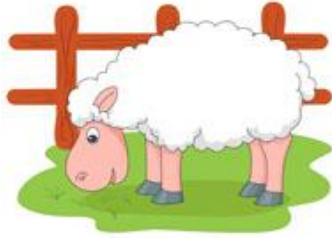
10. Below is the mass (weight) of four animals on Bertu's Farm.

cat
3.27 kg

sheep
55.5 kg

cow
403 kg

rabbit
2050 g



a) The is the lightest animal.

b) Work out the total mass of these four animals.
Give your answer in kg.

Show your working here.

kg

c) Work out the difference in mass between the sheep and the cow.
Give your answer in kg.

Show your working here.

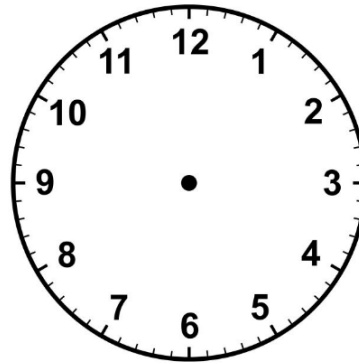
kg

(5 marks)

11. Buses leave the bus station every 20 minutes.

The first bus leaves at 06:05.

- a) Draw the hands to show 06:05 on the clock.



- b) At what time does the second bus leave?
Give your answer in digital 24-hour time.

Show your working here.

:

- c) Maria is at the station at 07:30.
Can she catch the fifth bus?

Tick (✓) the correct answer.

Yes

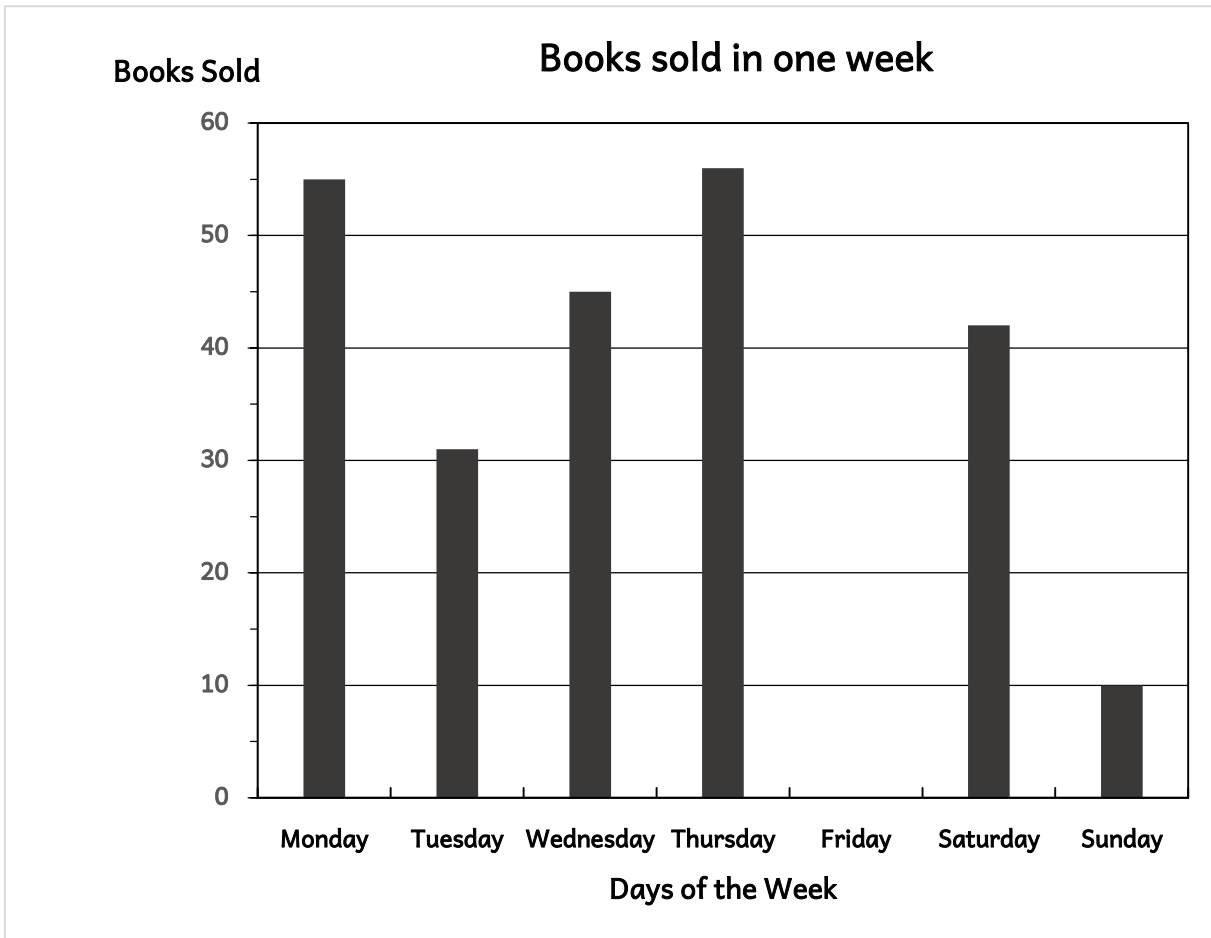
No

Explain by showing your working.

Show your working here.

(5 marks)

12. The bar graph below shows the number of books sold in one week at READING DEN bookshop.



a) 10 books were sold on Friday. Complete the bar graph.

b) 45 books were sold on .

c) Tick (✓) True or False.

More than 300 books were sold during the week.

True

False

Show working to explain your answer.

(5 marks)

13. There are **36 stickers** on **1 sheet** of stickers.



- a) James has **14 sheets** of stickers.
How many **stickers** does James have?

Show your working here.

stickers

- b) Luke has **216 stickers**.
How many **sheets of stickers** does Luke have?

Show your working here.

sheets

- c) Magda has **2 sheets** of stickers.
She says she has **less than a quarter** of Luke's stickers.

Tick (✓) the correct answer.

Is she right?

Yes

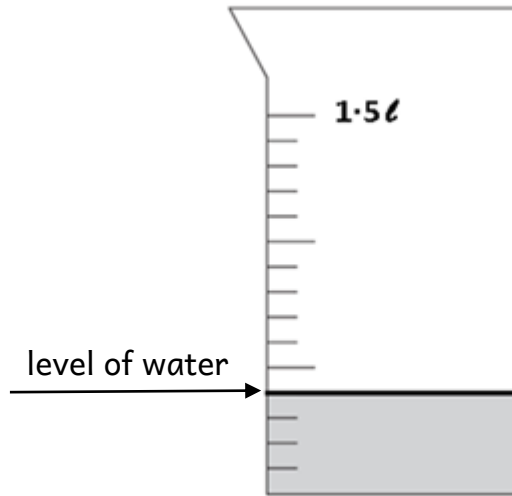
No

Explain by showing your working.

Show your working here.

(6 marks)

14a) There is some water in the jug below.



- i) How much water is there in the jug?
Give your answer in litres.

litres

- ii) Greg pours some more water in the jug.
There are now $1\frac{1}{5}$ litres of water in the jug.
Draw an arrow on the jug to show the new level of water.

- b) During Greg's birthday party 45 litres of water are used.
How many 1.5 litre jugs of water are used?

Show your working here.

<p style="text-align: right;">jugs</p>
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(6 marks)

15. Karl makes a pattern using matchsticks.

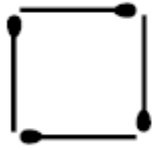


Figure 1

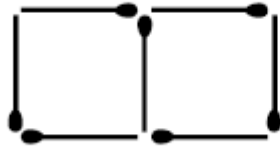


Figure 2

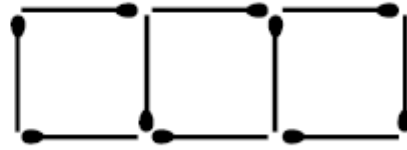


Figure 3

a) Work out the number of **matchsticks** Karl uses to make:

i) **Figure 5**

Show your working here.	
	matchsticks

ii) **Figure 23**

Show your working here.	
	matchsticks

b) Which **Figure** will have **46 matchsticks**?

Show your working here.	
	Figure

(6 marks)

16. Martha, Paula and Joanne are friends.



- a) The **total mass** (weight) of **Martha, Paula and Joanne** is **195 kg**.
Work out the **mean** (average) **mass** of the **three friends**.

Show your
working here.

kg

- b) The **mean mass** of **Martha and Paula** is **62.5 kg**.
The **mean mass** of **Paula and Joanne** is **67 kg**.
Work out **Paula's mass**.

Show your
working here.

kg

(6 marks)

END OF PAPER