



Half Yearly Examinations  
Maria Regina College

Scholastic Year 2015 / 2016

YEAR 6

WRITTEN MATHEMATICS

TIME: 1hr 15min

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

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

School: \_\_\_\_\_



Total  
mark

80

1. Work out

a)  $142 + \underline{\hspace{2cm}} = 200$

b)  $3\ 251 - 1\ 051 = \underline{\hspace{2cm}}$

c)  $10 \times \underline{\hspace{2cm}} = 450$

d)  $525 \div 5 = \underline{\hspace{2cm}}$

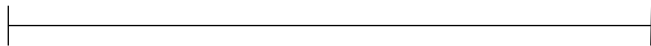
(4 marks)

2. Work out

a) $2.9 \times 10 = \underline{\hspace{2cm}}$	b) $3 \div 100 = \underline{\hspace{2cm}}$
c) $1.7 \times \underline{\hspace{2cm}} = 170$	d) $\underline{\hspace{2cm}} \div 10 = 6.23$

(4 marks)

3. a) Measure this line



b) Draw a line 6.8cm long.

(4 marks)

4. Tick the correct box.

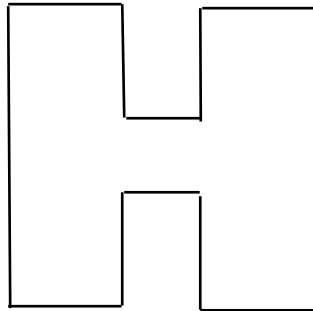
a) One banana weighs about 1.5kg.	True	False
b) $\frac{1}{4}$ kg is the same as 0.25kg.	True	False
c) A bee is around 35mm long.	True	False
d) A new pencil is 1.8m long.	True	False



(4 marks)

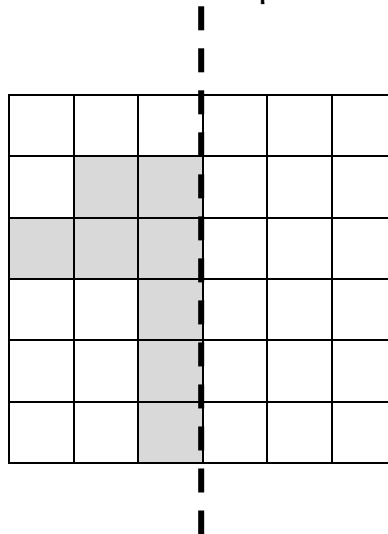
5.

a) Use a ruler. Draw **all** the lines of symmetry of this shape:



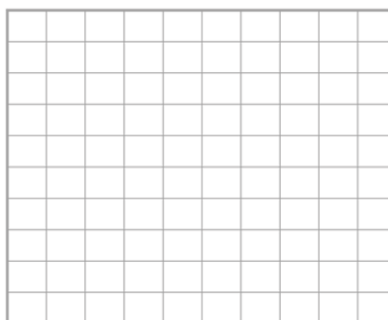
*(2 marks)*

b) Draw the reflection of this shape.



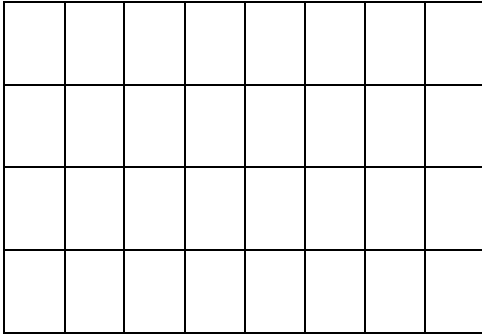
*(1 mark)*

c) Draw a shape with only **one** horizontal line of symmetry.

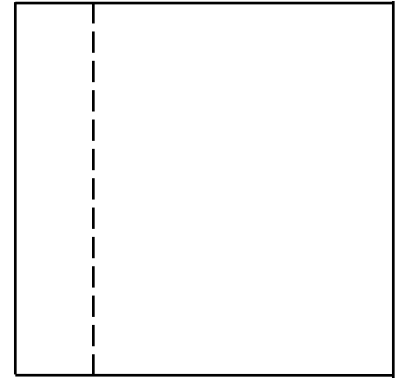


*(2 marks)*

6. a) (i) Shade  $\frac{1}{4}$



a)(ii) Use a ruler. Shade  $\frac{3}{5}$



(1, 2 marks)

b) What fraction of the shape is shaded? \_\_\_\_\_



(2 marks)

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7. Complete the following:

a) Write 2 multiples of 6 \_\_\_\_\_, \_\_\_\_\_.

(2 marks)

b) I am a multiple of 2 and 11.

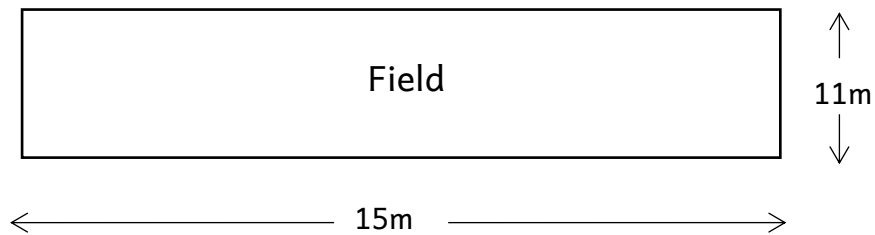
My digits add up to 12.

I am less than 100.

What number am I? \_\_\_\_\_.

(3 marks)

8. A farmer needs to build a fence around his field. He wants to know the perimeter of the field before he can buy the fence.



a) Work out the **perimeter** of the field.

*(2 marks)*

b) The fence costs €18 per metre.

What is the **total cost** of the fence?

*(3 marks)*

9. John saves €3.75 every week to buy a present for his mum.

a) How much does he save in 4 weeks?



*(1 mark)*

b) The present costs €75. How many weeks does it take him to save this amount?

*(2 marks)*

c) Mary saves €5 a week. She can buy the same present  
\_\_\_\_\_ weeks before John?

*(2 marks)*

10. Paul has 200 stickers.

He gives  $\frac{1}{5}$  to Mark  $\frac{1}{2}$  to Tony and the rest to Sam.

a) How many stickers does Mark get? \_\_\_\_\_ (1 mark)

b) How many stickers does Sam get? \_\_\_\_\_ (2 marks)

c) What fraction of the stickers does Sam get? (2 marks)

Give your answer in its simplest form.

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11. Mum has a string which is 3.7m long.

a) Change 3.7m to cm.

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(1 mark)

She cuts two pieces of 15cm each and another piece of  $1\frac{1}{2}$  m long.

b) How much string is left?

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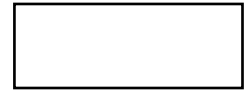
(2 marks)

c) She cuts the remaining piece in half. How long is each piece?

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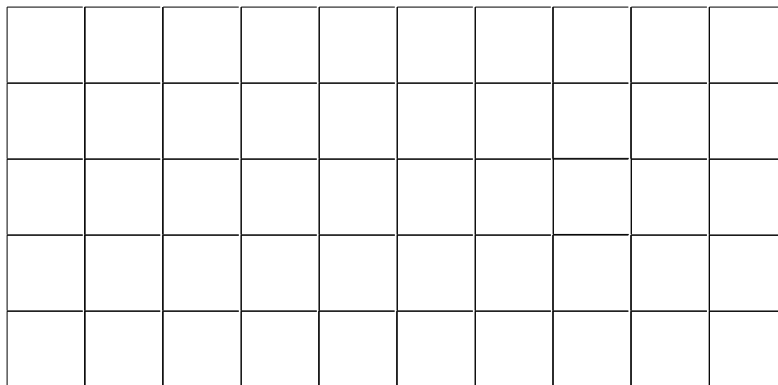
(2 marks)

12. a) The area of the rectangle is  $15\text{cm}^2$ .  
The shortest side is 2cm.  
Work out the length of the other side.



*(2 marks)*

- b) (i) On the gridlines below, draw a **different** rectangle with an area of  $15\text{cm}^2$ .



*(2 marks)*

- b) (ii) The perimeter of your new rectangle is \_\_\_\_\_ cm.

*(1 mark)*



13. Kim finds this torn bill.

	Quantity	Price per object	Cost
Kettles	4	€54	€
Toasters	4	€	
			Total €500

a) How much do 4 kettles cost?

(2 marks)

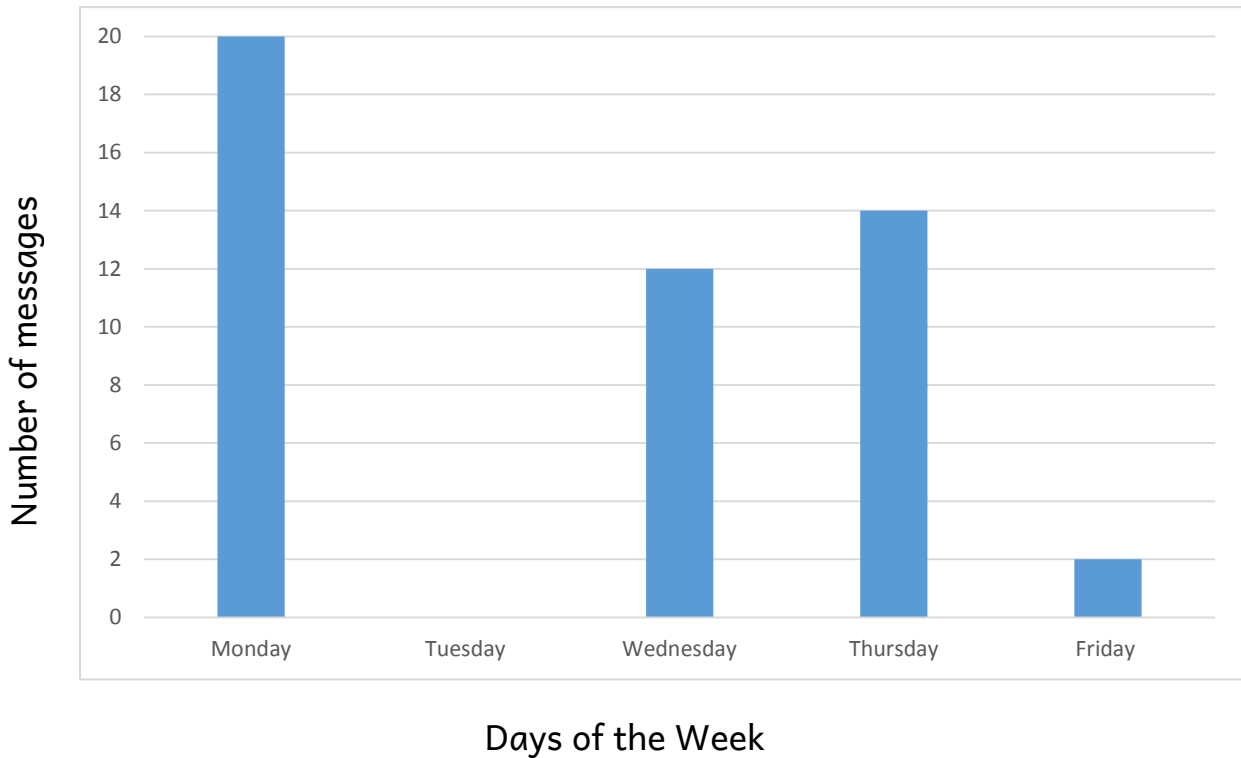
b) What is the price of 4 toasters?

(2 marks)

c) How much does 1 toaster cost?

(2 marks)

14. Katya received 54 messages in 5 days.



a) Work out the number of messages received on Tuesday. (2marks)

b) Complete the graph. (1marks)

c) Put a ✓ in the correct box. Katya received less than 10 messages on:

	1 day
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	2 days
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	3 days
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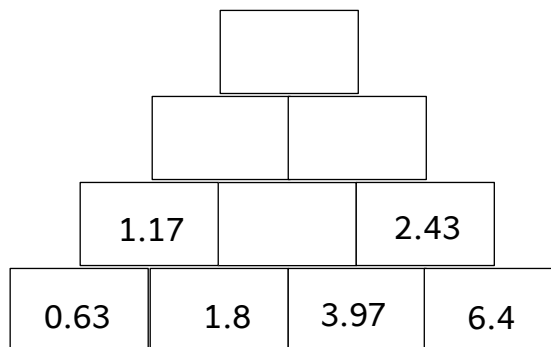
(1 mark)

d) What fraction of the total number of messages did she receive on Wednesday? Give your answer in its **simplest form**.

$\frac{\quad}{\quad}$
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(2 marks)

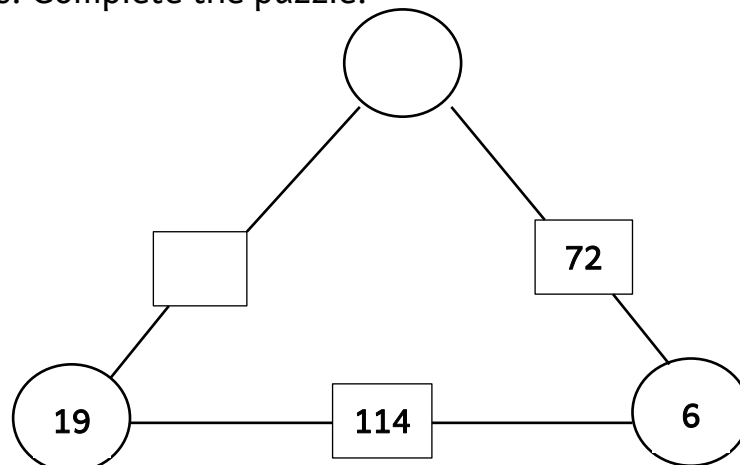
15. The number in each block is the **difference** between the numbers in the two blocks directly below.



- a) Fill in the missing block to complete the pyramid.

*(2 marks)*

- b) The numbers in the circles are **multiplied** to give the numbers in the rectangles. Complete the puzzle.



*(2 marks)*

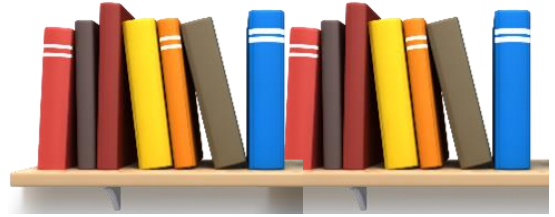
- c) This is a magic square. The **totals for each row, column and diagonal are the same.**

Find the value of 😊. *You do not have to complete all the magic square.*

14		7	2
😊		12	
	5	9	16
15			3

*(2 marks)*

16. Mike is sorting his books on shelves.  
He puts 4 Maltese books and 10 English books on each shelf.



In all he has 36 more English books than Maltese.

a) How many shelves does he fill? \_\_\_\_\_ (2 marks)

b) How many Maltese books does he have? \_\_\_\_\_ (2 marks)

c) How many English books does he have? \_\_\_\_\_ (2 marks)

END OF PAPER

Marking Scheme	Nos.	1 - 4	4x4	=	16
		5 - 12	8 × 5	=	40
		13- 16	4 × 6	=	24
				TOTAL	<u>80</u>