

**END OF PRIMARY BENCHMARK**

**2016**

**SECOND SESSION**

**MATHEMATICS**

**WRITTEN PAPER**

**80 marks**

**1 hour 30 minutes**

1. Work out.

<p>a) <math>385 + 115 = \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>	<p>b) <math>4000 - 264 = \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>
<p>c) <math>16 \times 29 = \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>	<p>d) <math>432 \div 18 = \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>

(4 marks)

2. Shade squares to make a **symmetrical pattern** in the mirror lines.  
For each figure, shade 2 more squares.

a)

b)

(4 marks)

3. Tick (✓) always true, sometimes true or never true.

The first one is done for you.

		always true	sometimes true	never true
a)	A triangle is a shape with 3 sides.	✓		
b)	All the angles in a triangle add up to 180°.			
c)	A triangle has 1 right angle.			
d)	A triangle has 4 lines of symmetry.			
e)	All the sides in a triangle are equal.			

(4 marks)

4. Fill in with  $<$ ,  $>$  or  $=$ .

a) 7 tenths   $\frac{7}{10}$

b) 70%   $\frac{7}{10}$

c) 0.07   $\frac{7}{10}$

d)  $\frac{4}{5}$    $\frac{7}{10}$

(4 marks)

5. Look at this grid.

The **total of each column** and the **total of each row** are equal.

Complete the grid.

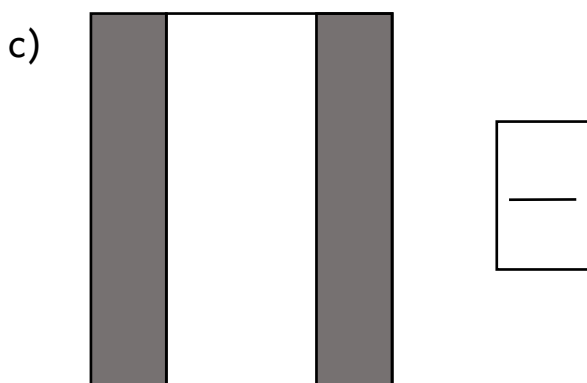
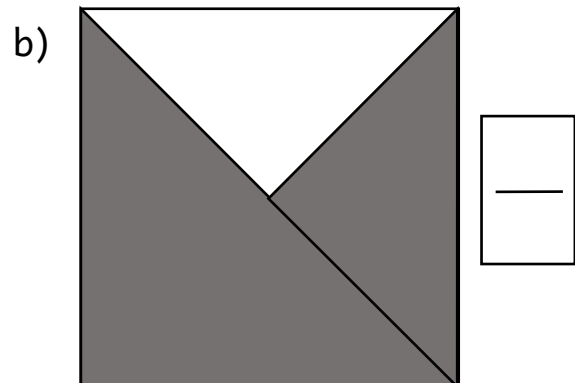
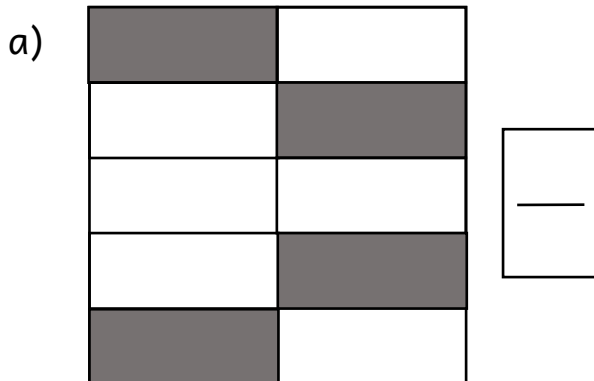
2			13
16	9	6	3
5	4		10
11	14		

(5 marks)

6. Look at these shapes.

What fraction is **shaded**?

Write all fractions in their **simplest form**.



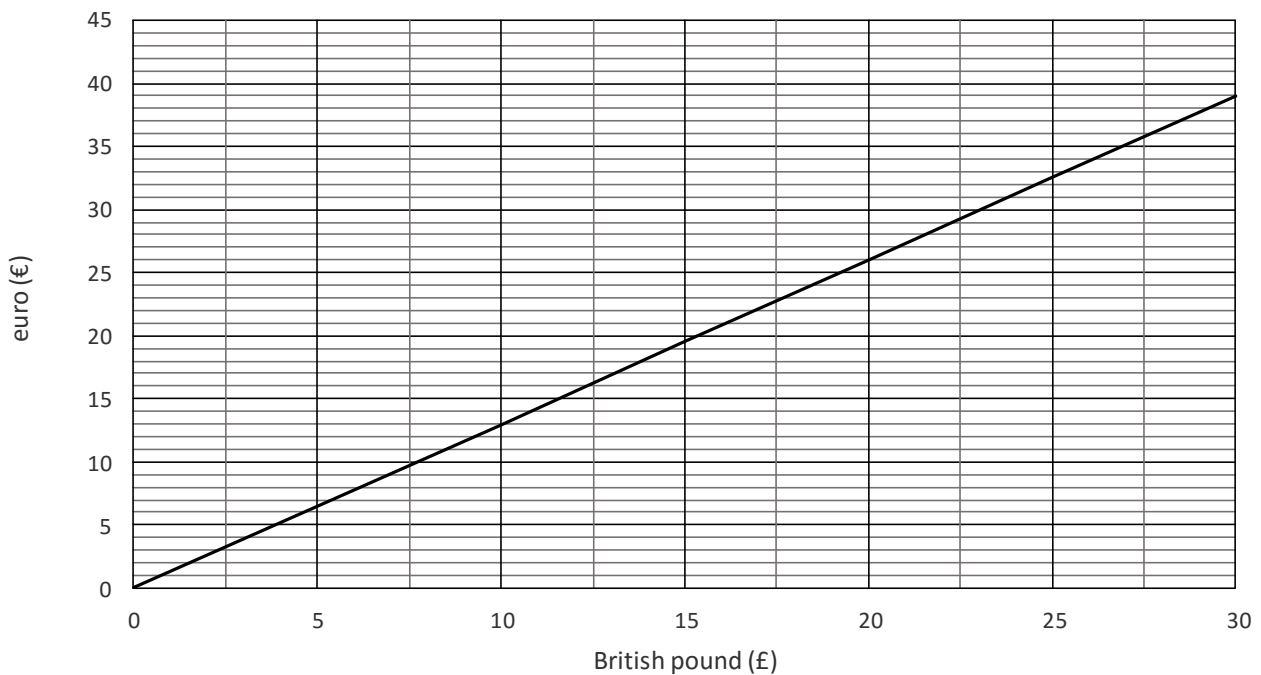
(5 marks)

7. In Malta, we use the euro (€) to buy things.  
In England, people use the British pound (£).

a) Look at the graph below and complete the following table.

<b>British pound (£)</b>	0	5	10	15	20	25	
<b>euro (€)</b>	0	6.50		19.50		32.50	39

The British pound and the euro



b) How many euro (€) are equal to 50 British pounds (£)?

Show your  
working here.

\_\_\_\_\_ euro

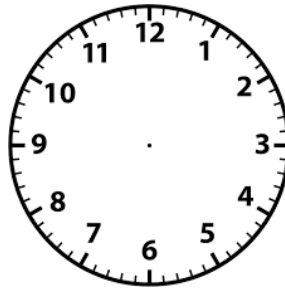
(5 marks)

8. The Vella family goes to the Eurovision Song Contest 2016.

a) The show starts at 21:00.



i) Show this time on the clock.



ii) The show ends at 00:30.  
How long is the show?

Show your  
working here.

\_\_\_\_\_ hours

b) The flight from Sweden to Malta leaves at 15:35.  
The flight is 2 hours 25 minutes long.  
At what time does the plane land in Malta?  
Give your answer in 24-hour clock time.

Show your  
working here.

\_\_\_\_\_ : \_\_\_\_\_

(5 marks)

9. Mario weighed **78.6 kg**.  
He went on a holiday and put on some weight.  
His new weight is **81 kg**.



a) Mario gains  kg .

b) Mario wants to weigh **75 kg**.

i) How much **weight** does he need to **lose**?

Show your working here.

kg

ii) Mario plans to lose  $\frac{3}{4}$  kg every week.

How many **weeks** does he need to lose this weight?

Show your working here.

weeks

(5 marks)

10. A charity walk is 10 km long.



a) Tania walks 7.5 km.

How many **more metres** does she need to walk to complete the charity walk?

Show your working here.

\_\_\_\_\_ metres

b) Neil finishes the walk in 1 hour 5 minutes.

Brian finishes the walk in 105 minutes.

i) Who is the **fastest**?

\_\_\_\_\_

ii) **Explain your answer** by showing the working.

Show your working here.

(5 marks)



11. All the children in a Year 6 class bought some packets of stickers.  
The table below shows the number of packets the children bought.

No. of packets bought	0	1	2	3	4	5
No. of children	4	6	7	4	2	2

- a) How many children are there **altogether** in this Year 6 class?

\_\_\_\_\_ children

- b) How many children bought **more than 2 packets**?

\_\_\_\_\_ children

- c) What is the **mean (average) number of packets bought**?

Show your working here.

\_\_\_\_\_ packets

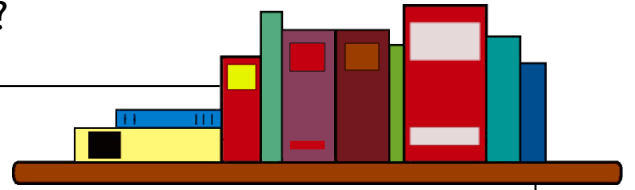
- d) Each packet has **6 stickers**.  
How many stickers did the children buy in all?

Show your working here.

\_\_\_\_\_ stickers

(5 marks)

- 12a) In a class library, there is a **total of 126 books**.  
For every **3 books in Maltese**, there are **4 books in English**.  
How many **books in Maltese** are there?



Show your  
working here.

\_\_\_\_\_ books in Maltese

- b) Ms Katia buys another **46 books in Maltese**.  
She does not buy any books in English.  
Ms Katia says that there are now **28 more books in Maltese than in English**.

**Explain why Ms Katia is correct.**

Show your  
working here.

(5 marks)

13. A boat trip from Malta to Sicily costs €139 for adults.  
A child's ticket costs **half the price**.



- a) How much does the ticket for a child cost?

Show your working here.

€ \_\_\_\_\_

- b) John and Anne are taking their **three grandchildren** to Sicily.  
How much will they pay for **all 5 tickets**?

Show your working here.

€ \_\_\_\_\_

- c) There is a Special Offer and the family gets a **20% discount**.  
How much do they **pay**?

Show your working here.

€ \_\_\_\_\_

(6 marks)

14a) Some **Year 6** children go on a school outing to a historical site.

There are **168 children** from one school and **210 children** from another school.



i) How many children go to the historical site?

\_\_\_\_\_ children

ii) Write your answer in words.

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b) Apart from **Year 6 children**, there are **320 Year 5 children** on the historical site.

How many more **Year 6 children** than **Year 5 children** are there?

Show your working here.

\_\_\_\_\_ children

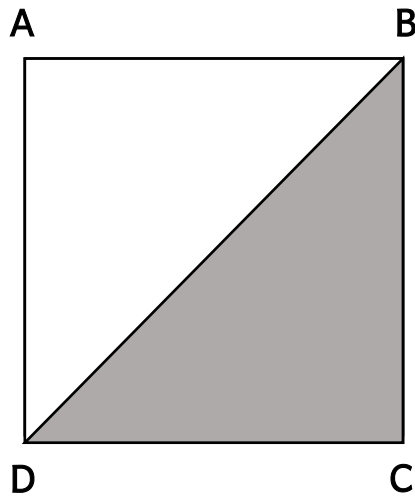
c) Guides are there to take all children on a tour. Each guide cannot take more than **30 children**. How many **guides** are needed?

Show your working here.

\_\_\_\_\_ guides

(6 marks)

15. The area of triangle BCD is  $18 \text{ cm}^2$ .



a) What is the **area** of square ABCD?

Show your  
working here.

\_\_\_\_\_  $\text{cm}^2$

b) What is the **length** of a side of the **square**?

Show your  
working here.

\_\_\_\_\_ cm

c) Work out the **perimeter** of the **square**.

Show your  
working here.

\_\_\_\_\_ cm

(6 marks)

16. A to G represent numbers from 0 to 6.

A B C D E F G

Each letter stands for a different number.

Letter G stands for number 5.

Follow the clues to work out the value of each letter.

$$\boxed{G} + \boxed{C} = \boxed{G}$$

$$\boxed{G} \div \boxed{F} = \boxed{G}$$

$$\boxed{A} \times \boxed{B} = \boxed{D}$$

$$\boxed{D} - \boxed{B} = \boxed{E}$$

$$\boxed{A} = \square$$

$$\boxed{B} = \square$$

$$\boxed{C} = \square$$

$$\boxed{D} = \square$$

$$\boxed{E} = \square$$

$$\boxed{F} = \square$$

$$\boxed{G} = \boxed{5}$$

(6 marks)

END OF PAPER