

**END OF PRIMARY BENCHMARK**

**MATHEMATICS  
WRITTEN PAPER**

**80 Marks**

**1 hour 15 minutes**

WRITTEN PAPER

1. Work out:

<p>a) <math>283 + 117 =</math></p> <p style="text-align: right;"><input type="text"/></p>	<p>b) <math>3000 - 125 =</math></p> <p style="text-align: right;"><input type="text"/></p>
<p>c) <math>70 \times 70 =</math></p> <p style="text-align: right;"><input type="text"/></p>	<p>d) <math>\underline{\hspace{2cm}} \div 10 = 65.3</math></p> <p style="text-align: right;"><input type="text"/></p>

2a) Tick () the best measure for:

i)



an apple

200 g	<input type="checkbox"/>
2 kg	<input type="checkbox"/>
20 kg	<input type="checkbox"/>

ii)



a teaspoon

5 ml	<input type="checkbox"/>
50 ml	<input type="checkbox"/>
5 l	<input type="checkbox"/>

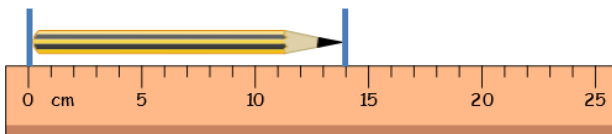
iii)



a toothbrush

17 mm	<input type="checkbox"/>
17 cm	<input type="checkbox"/>
17 m	<input type="checkbox"/>

b) Look at the picture below.



The **length** of the pencil is

cm .

3. Fill in the blank spaces with one of the name cards below.

mixed fractions

decimal numbers

even numbers

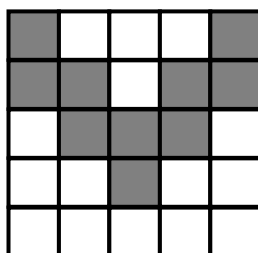
multiples of 5

~~proper fractions~~

square numbers

					NAME CARDS
<i>Example</i>	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{2}{5}$	$\frac{1}{10}$	<i>proper fractions</i>
a)	36	100	4	81	
b)	$5\frac{3}{4}$	$2\frac{5}{7}$	$3\frac{3}{8}$	$10\frac{1}{3}$	
c)	5	25	40	105	
d)	268	170,000	54	6	

4. The diagram below shows a grid of squares. Some squares are shaded.



a) What **fraction** of the whole grid is **shaded**?

b) What **fraction**, in its **simplest form**, is **not shaded**?

c) What **percentage** of the **whole grid** is **shaded**?

 %

5a) Tick (  ) the correct answer in each question below.

i)

$$8 \times 8 = 64$$

This means that:

Double 8 = 64

$64 \div 8 = 8$

Half of 64 = 8

ii)

$$42 \times 18$$

This is the same as:

$42 \times 6 \times 3$

$42 \times 1 \times 8$

$42 \times 10 \times 8$

b) Look at the calculation in the box.

Explain what it means.

$$\frac{1}{3} \text{ of } 27 = 9$$

It means that \_\_\_\_\_  
 \_\_\_\_\_

6. Use the digits in each question **only once**.

a) Make the **smallest** possible **number** using **all** these digits.

$\Rightarrow$  \_\_\_\_\_

b) Use **all** these digits to make a **fraction** and an **equivalent decimal**.

$\Rightarrow$   $\frac{\square}{\square} = \square.\square$

c) **Arrange all these digits to make the largest possible answer.**

$\Rightarrow$  \_\_\_\_\_  $\times$  \_\_\_\_\_

7. In a Year 6 class:

**10% of the pupils have a dog.**  
**40% of the pupils have a cat.**  
**The rest have a fish.**

a) What is the **percentage** of pupils who **do not have a dog** as a pet?

\_\_\_\_\_ %

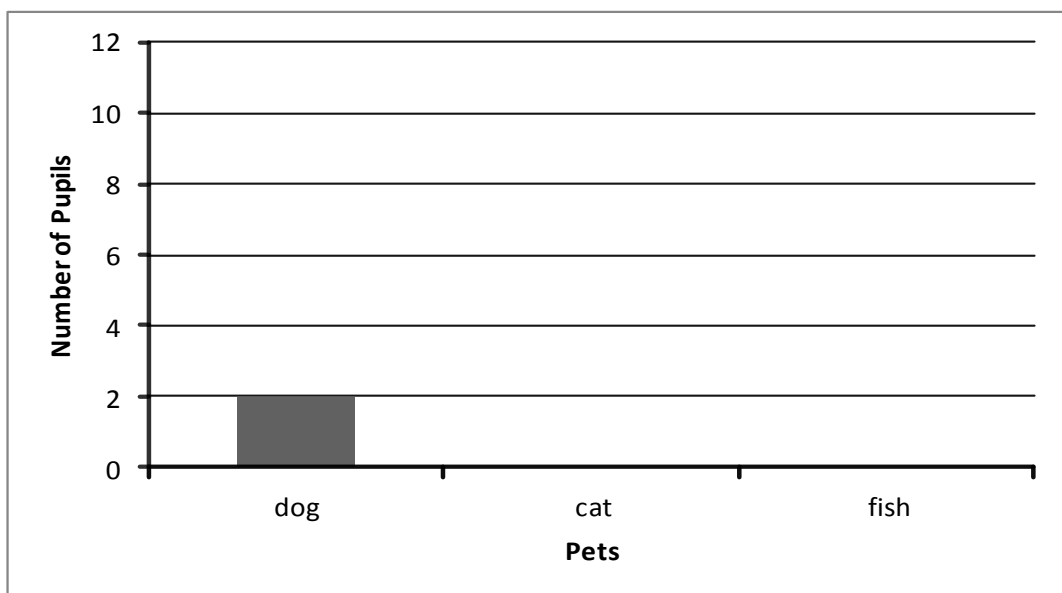
b) In this class there are **20 pupils**.

**Work out** how **many pupils have a fish** as a pet.

\_\_\_\_\_ pupils

c) **Complete this bar chart.**

**PETS OWNED BY YEAR 6 PUPILS**





8. Carla takes **five** books to school.  
These books and Carla's bag weigh **4.5 kg together**.

a) The books weigh **750 g, 0.6 kg, 700 g, 420 g** and **1kg**.  
Work out the **total weight** of these **five books**.  
Give your answer in **kg** and **g**.

_____ kg _____ g
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b) Work out the **weight** of Carla's **empty bag**?

_____ kg _____ g
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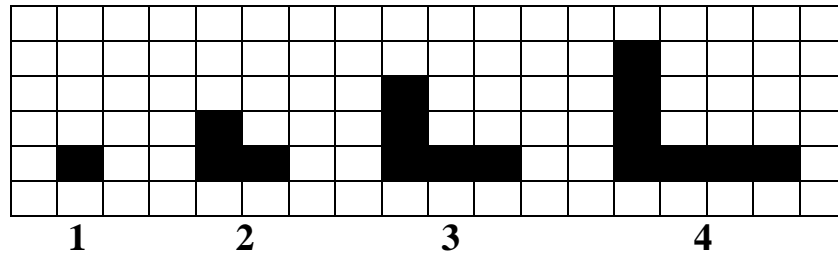
c) One day, Carla takes an **extra book** to school.

The **weight** of Carla's **bag** and **all the books** is now  **$4\frac{3}{4}$  kg**.

Work out the **weight of the extra book**. Give your answer in **grams**.

_____ g
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9. Look carefully at this **sequence of shapes** made of **rectangles**.



<b>Shape number</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Number of rectangles</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>7</b>

a) How many **rectangles** will **shape number 9** have?

\_\_\_\_\_ rectangles

b) Which **shape number** will have **23 rectangles**?

shape number \_\_\_\_\_

c) Complete the **rule** for this sequence:

( *shape number* ×  ) - 1



10. From a stationery shop



**Mark buys  
6 books for €15**

and

**Fiona buys  
3 e-books for €15**



a) What is the **cost** of **1 book**?

€ \_\_\_\_\_

b) Mum bought **3 books** and **4 e-books** for her son.  
How much did **Mum** pay?

€ \_\_\_\_\_

c) Sarah spent **€45**.

She bought  **books** and  **e-books**.

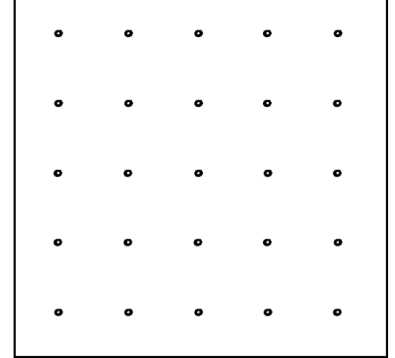
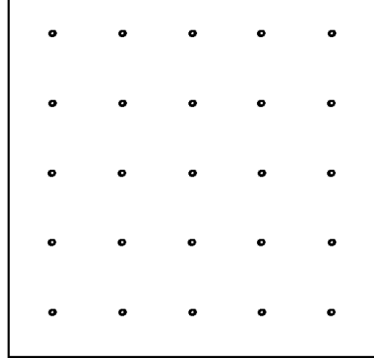
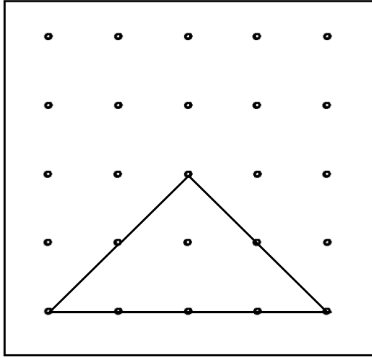
11a) The first board shows an isosceles triangle.

**Draw the other two types of triangles.**

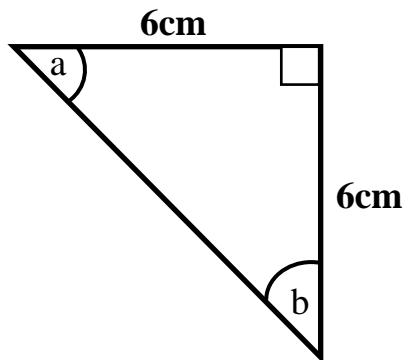
i) an **isosceles** triangle

ii) a **right angled** triangle

iii) a **scalene** triangle



b) Look at this triangle.

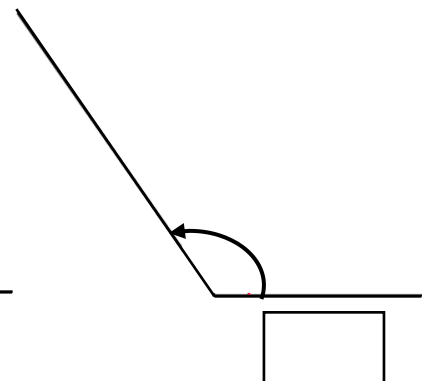
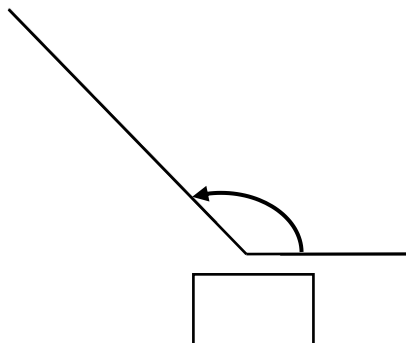
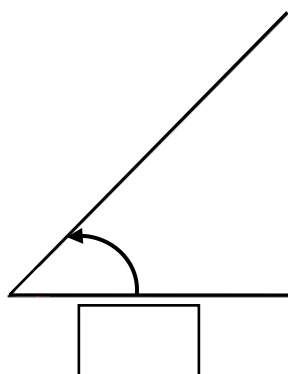


Work out the size of **angle a** in this triangle, **without** using the protractor.

Angle a = \_\_\_\_\_<sup>o</sup>

c) Tick (  ) the angle of size 135°.

(Note: You need to use the protractor to **measure** the **angles**.)



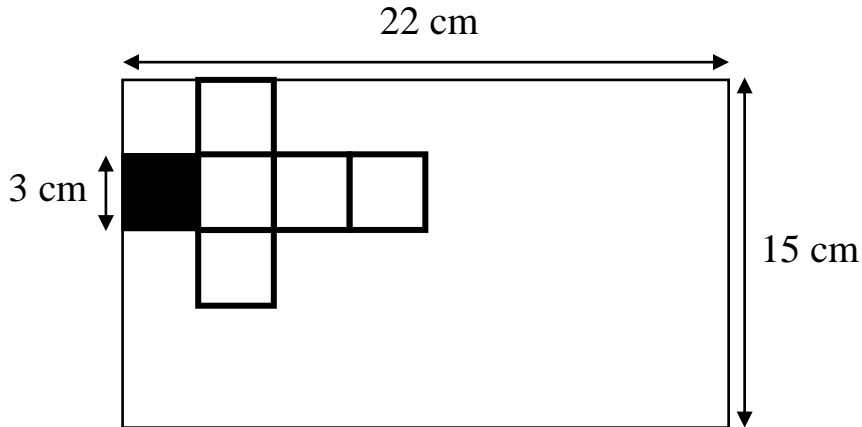


12. Peter had a piece of cardboard measuring **22 cm** by **15 cm**.

a) What is the **area** of the **cardboard**?

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

b) From the cardboard, he needed to cut **the net of a cube of sides 3 cm**, as shown in the diagram below.



**Work out:**

i) the **area** of the **black square**.

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

ii) the **area** of the **net of the cube**.

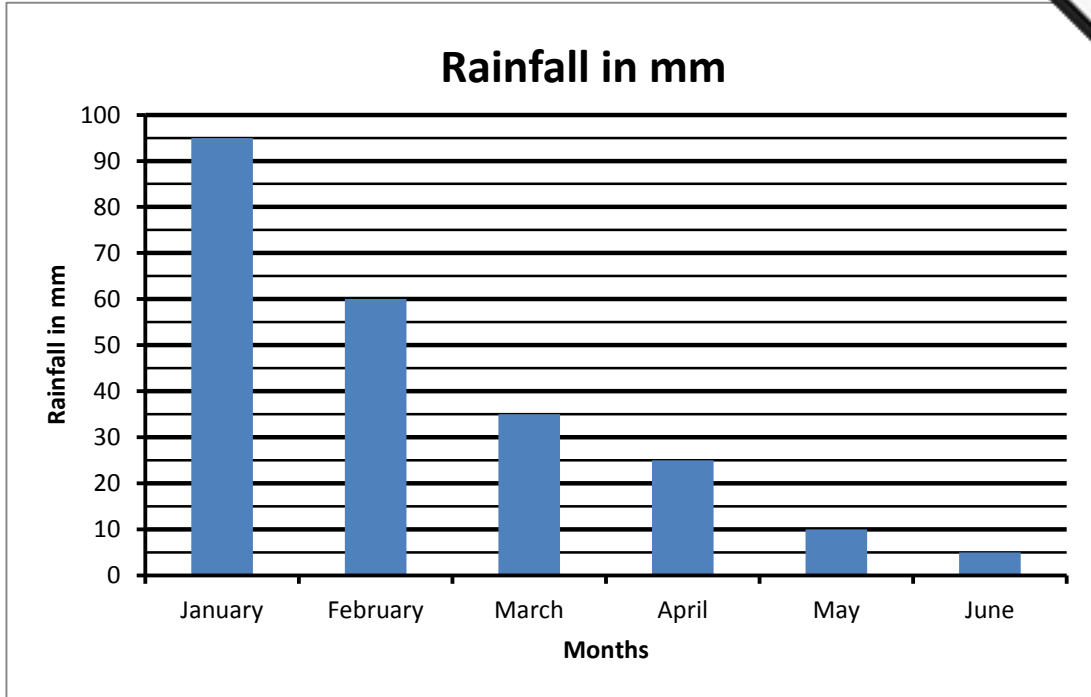
\_\_\_\_\_  $\text{cm}^2$

c) Peter cut out the net.

Work out the **area** of the **remaining cardboard**.

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

13. The graph shows **the amount of rainfall in the first 6 months of the**



a) What was the **total** rainfall in **February**?

\_\_\_\_\_ mm

b) In **January** it rained \_\_\_\_\_ mm more than in **May**.

c) What was the **total rainfall** for the **first six months of the year**?

\_\_\_\_\_ mm

d) **The average** rainfall for **the first seven months** of the year was **33 mm**.

How much did it rain in **July**?

\_\_\_\_\_ mm

14. Packets of water bottles were bought for a school party for **200** children.

**Each bottle** had a capacity of **1.5 l** of water.

a) **Glasses** holding **150 ml** of water **each** were used at the party.

How many **glasses** of water were filled from **1 bottle**?

\_\_\_\_\_ glasses

b) **Each packet** contained **6 bottles** of water.

Jack said that **65 glasses** could be filled from **each packet** of water.

i) **Do you agree?**

Tick (  ) the correct answer.

Yes                       No

ii) **Give a reason** for your answer.

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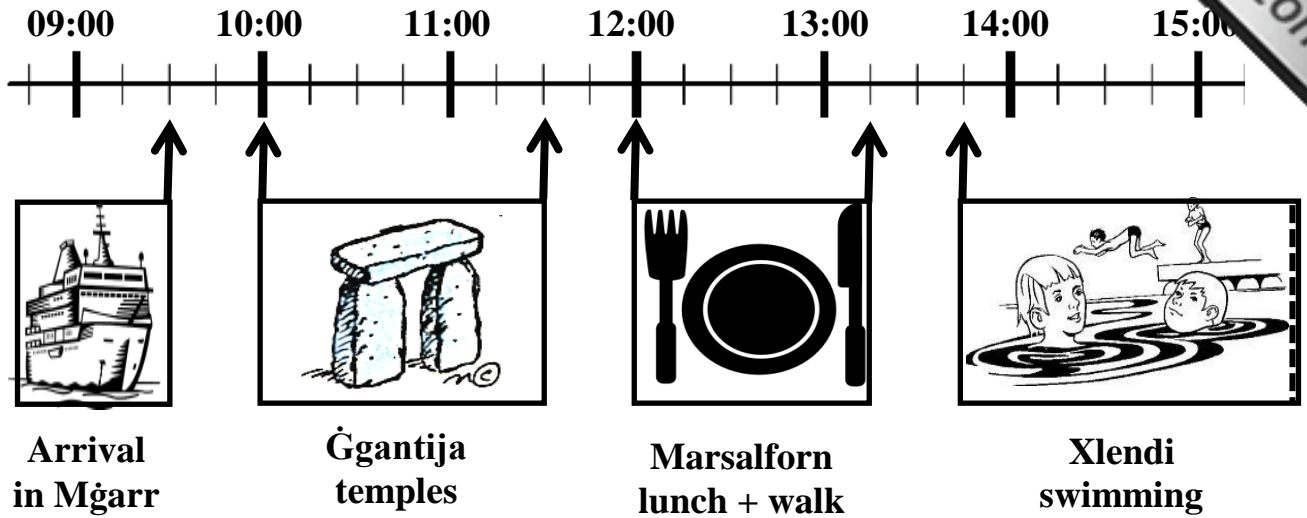
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c) During the party, **all children** had their glass filled **twice** with water.

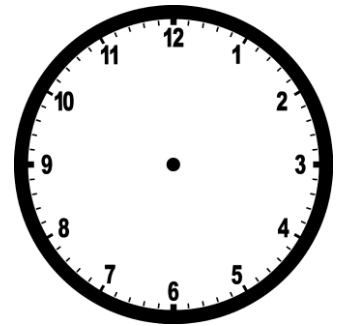
How many **litres** of water were used at the party?

\_\_\_\_\_ litres

15. Last Friday, Ben spent a day in Gozo with his friends.  
 Look at this timeline and answer the questions below.



a) Ben and his friends arrived in Gozo at **09:30**.  
 Mark **09:30** on this clock face.



b) Ben and his friends had lunch in **Marsalforn** and then went for a short walk.  
 They left **Marsalforn** at **13:15**.  
 How long, in minutes, did they stay there?

\_\_\_\_\_ minutes

c) In **Xlendi** the children enjoyed a swim.  
 They spent **165 minutes** at the beach.  
 At what time did they leave?

\_\_\_\_\_ : \_\_\_\_\_ p.m.

16. **A, B and C stand for three different numbers.**  
 (Note: Each of A, B and C is a multiple of 10.)

$$\text{A} + \text{B} = 90$$

$$\text{B} + \text{C} = 60$$

$$\text{A} + \text{B} + \text{C} = 130$$

Work out the value of A, B and C.

$$\text{A} = \text{○}$$

$$\text{B} = \text{□}$$

$$\text{C} = \text{△}$$

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**END OF PAPER**

**Marking Scheme**

<b>Mental Paper</b>	Nos.	1 - 20	$20 \times 1$ mark	=	20 marks
<b>Written Paper</b>	Nos.	1 - 4	$4 \times 4$ marks	=	16 marks
		5 - 12	$8 \times 5$ marks	=	40 marks
		13 - 16	$4 \times 6$ marks	=	24 marks
<b>TOTAL</b>					<u>100 marks</u>