END OF PRIMARY BENCHMARK

MATHEMATICS
WRITTEN PAPER

80 Marks
1 hour 15 minutes

WRITTEN PAPER

1. **Work out:**

a) $283 + 117 =$ _____	b) $3000 - 125 =$ _____
c) $70 \times 70 =$ _____	d) _____ $\div\ 10 = 65 \cdot 3$ _____

2a) **Tick (✓) the best measure for:**

i)

an apple

200 g	
2 kg	
20 kg	

ii)

a teaspoon

5 $m\ell$	
50 $m\ell$	
5 ℓ	

iii)

a toothbrush

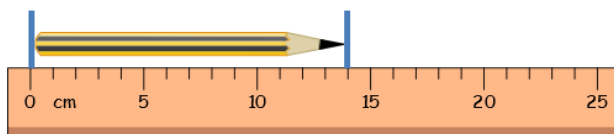| 17 mm	
17 cm	
17 m	

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.**

(**Note:** One of the name cards is extra.)
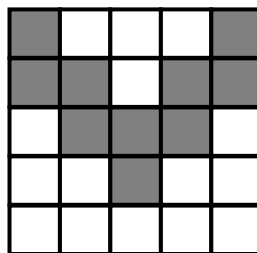
mixed fractions	decimal numbers	even numbers
multiples of 5	~~proper fractions~~	square numbers

					NAME CARDS
Example	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{2}{5}$	$\frac{1}{10}$	*proper fractions*
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)

$$8 \times 8 = 64$$

ii)

$$42 \times 18$$

This means that:

Double 8 = 64 ☐

64 ÷ 8 = 8 ☐

Half of 64 = 8 ☐

This is the same as:

42 × 6 × 3 ☐

42 × 1 × 8 ☐

42 × 10 × 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.

| 4 | 2 | 3 | 1 | ⟹ ___ ___ ___ ___

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

| 1 | 0 | 5 | 2 | ⟹ $\frac{\square}{\square}$ = ___ . ___

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

| 6 | 2 | 3 | 7 | ⟹ ___ ___ × ___ ___

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.**

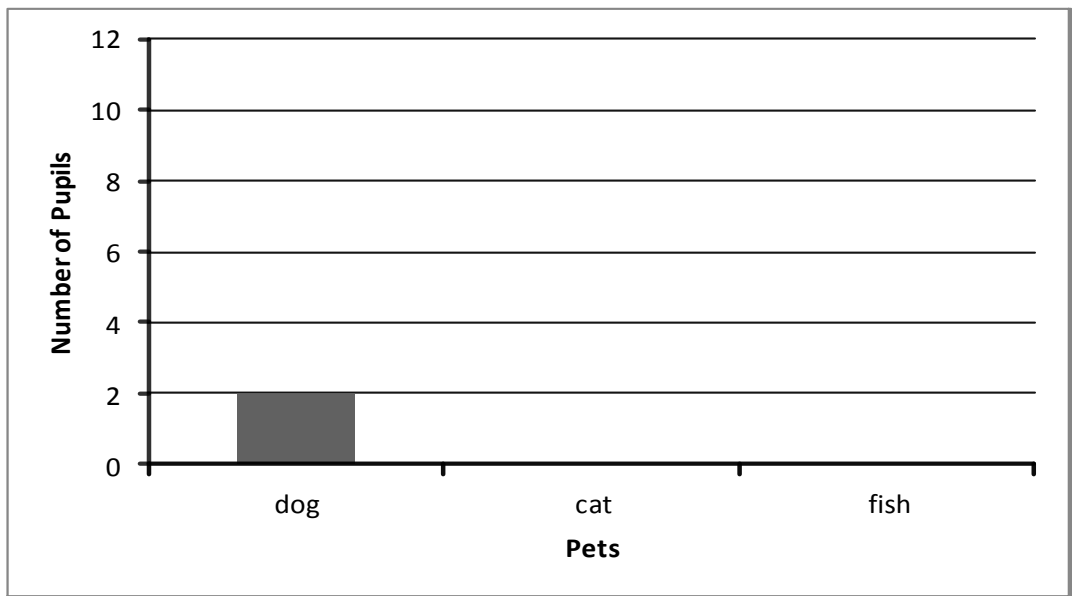a) What is the **percentage** of pupils who **do not have a dog** as a pet?

_____ %

b) In this class there are **20 pupils**.
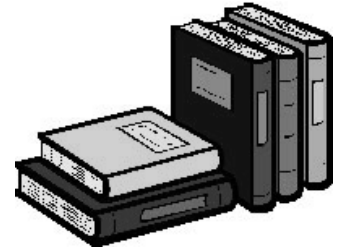
Work out how **many pupils have a fish** as a pet.

_____ **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

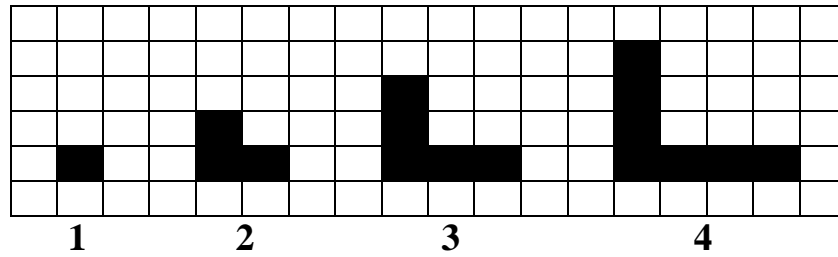b) Work out the **weight** of Carla's **empty bag**?

_____ kg _____ g

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

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

Shape number	1	2	3	4
Number of rectangles	1	3	5	7

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**.
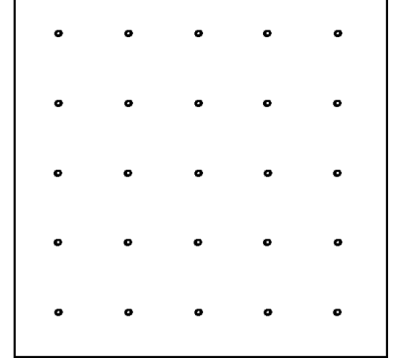
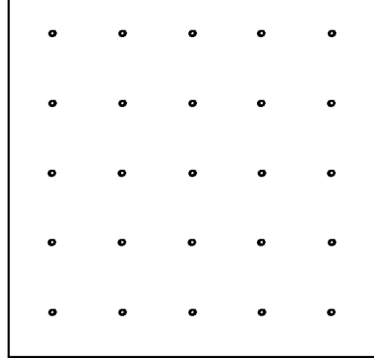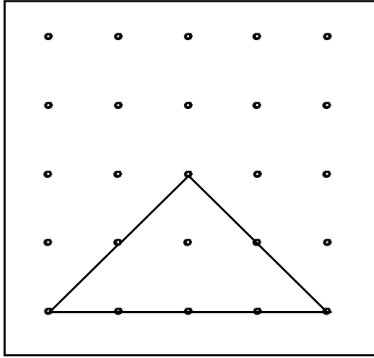She bought   **2**   **books** and ☐ **e-books**.

11a) The first board shows an isosceles triangle.

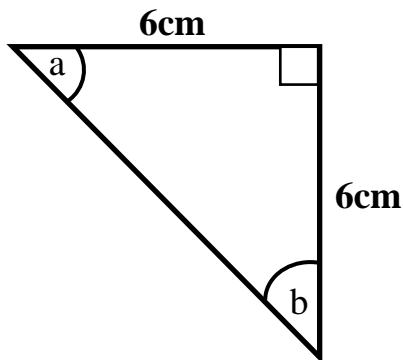**Draw the other two types of triangles**.

  i) an **isosceles** triangle ii) a **right angled** triangle iii) a **scalene** triangle
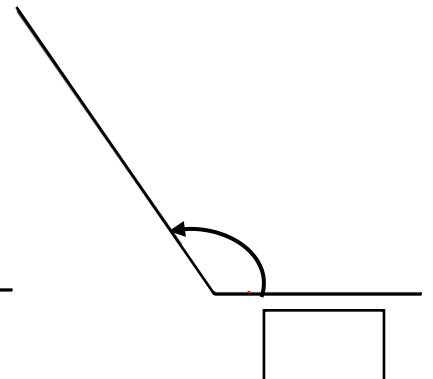

b) Look at this triangle.

6cm

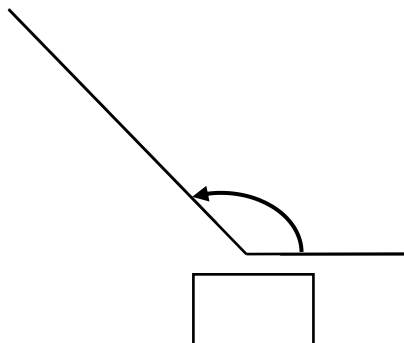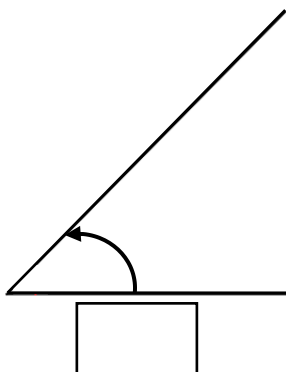a

6cm

b

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

Angle a = _____ **o**

c) **Tick (✓) the angle of size 135°.**

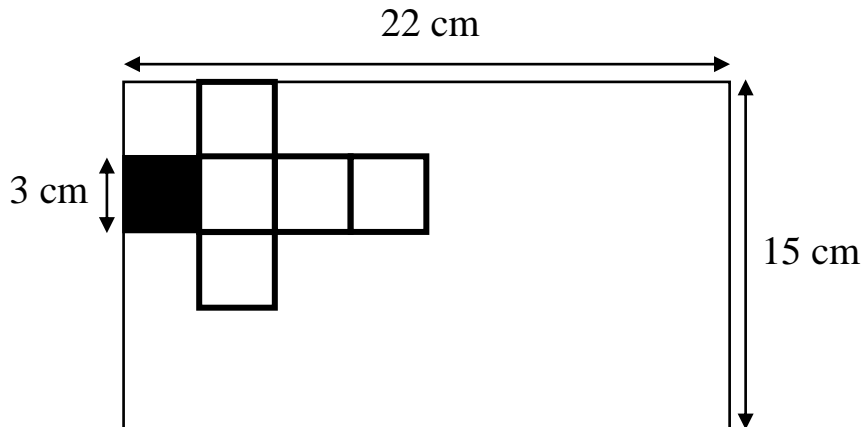*(**Note:** You need to use the protractor to **measure** the angles.)*

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

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

_____ **cm²**

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

22 cm

3 cm

15 cm

Work out:

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

_____ **cm²**

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

_____ **cm²**

c) Peter cut out the net.

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

_____ **cm²**

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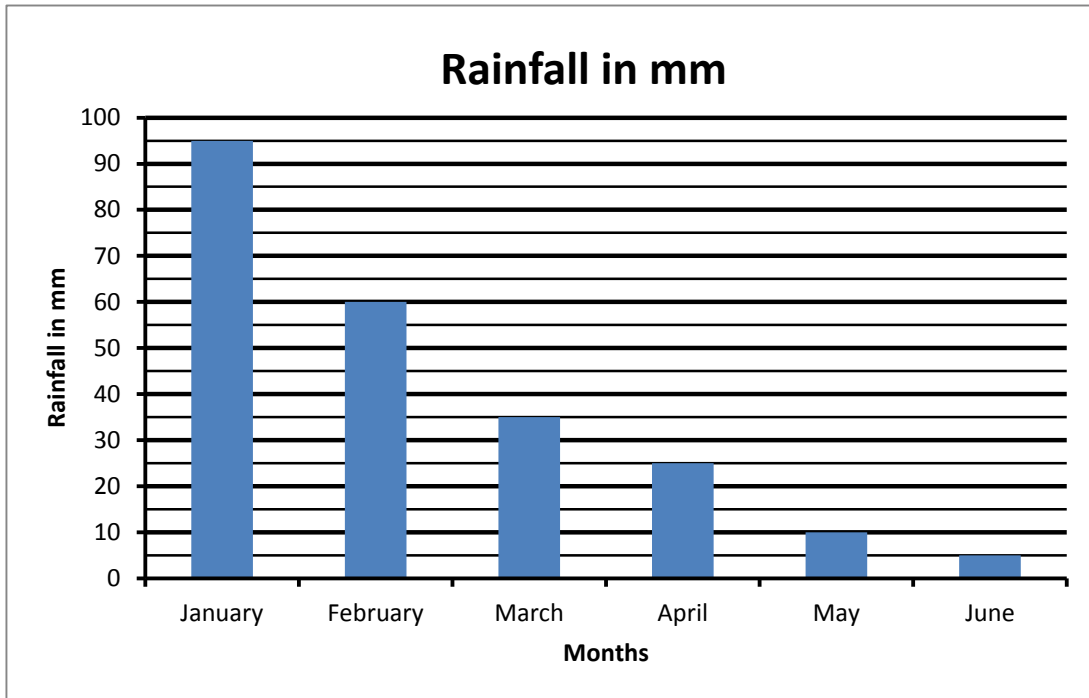
Rainfall in mm

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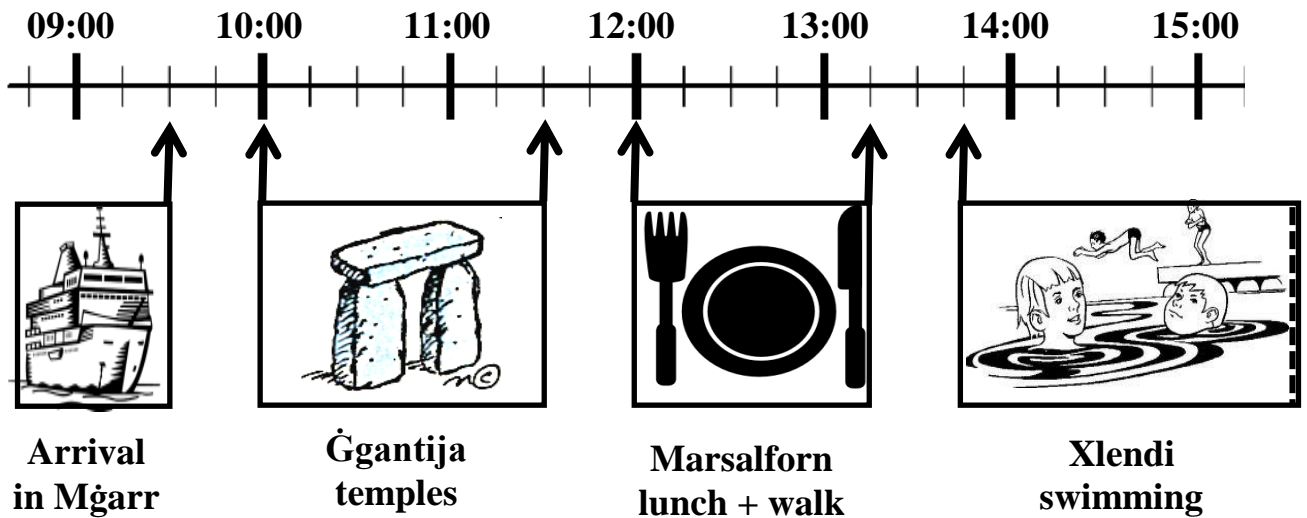
ii) **Give a reason** for your answer.

_____

_____

c) During the party, **all children** had their glass filled **twice** with water.
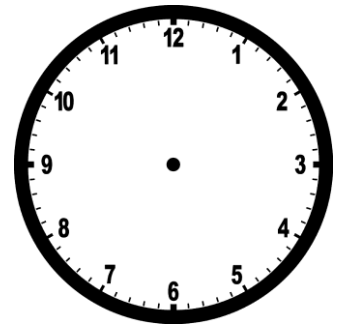
How many **litres** of water were used at the party?

_____ litres

15.   Last Friday, Ben spent a day in Gozo with his friends.

Look at this timeline and answer the questions below.

| 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 |

Arrival in Mġarr

Ġgantija temples

Marsalforn lunch + walk

Xlendi swimming

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.*)

$$\bigcirc A \;+\; \square B \;=\; 90$$

$$\square B \;+\; \triangle C \;=\; 60$$

$$\bigcirc A \;+\; \square B \;+\; \triangle C \;=\; 130$$

Work out the value of A, B and C.

A = $\bigcirc$ B = $\square$ C = $\triangle$

END OF PAPER

Marking Scheme

Mental Paper	Nos.	1 - 20	20 × 1 mark	=	20 marks
Written Paper	Nos.	1 - 4	4 × 4 marks	=	16 marks
		5 - 12	8 × 5 marks	=	40 marks
		13 - 16	4 × 6 marks	=	24 marks
			TOTAL		**100 marks**