

END OF PRIMARY BENCHMARK

2016

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

1. Work out.

a) $145 + 325 =$ _____

b) $3456 - 248 =$ _____

c) $23 \times 19 =$ _____

d) $224 \div 16 =$ _____

(4 marks)

2. Tick (✓) the correct answer in each of the following.

a) Look at this net.

i) This is the net of a

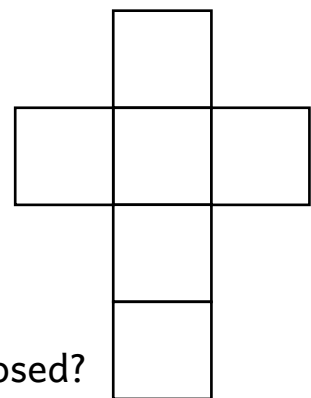
cube cuboid cylinder

ii) How many **faces** does this 3-d shape have?

6 8 12

iii) How many **vertices** does this 3-d shape have when closed?

6 8 12

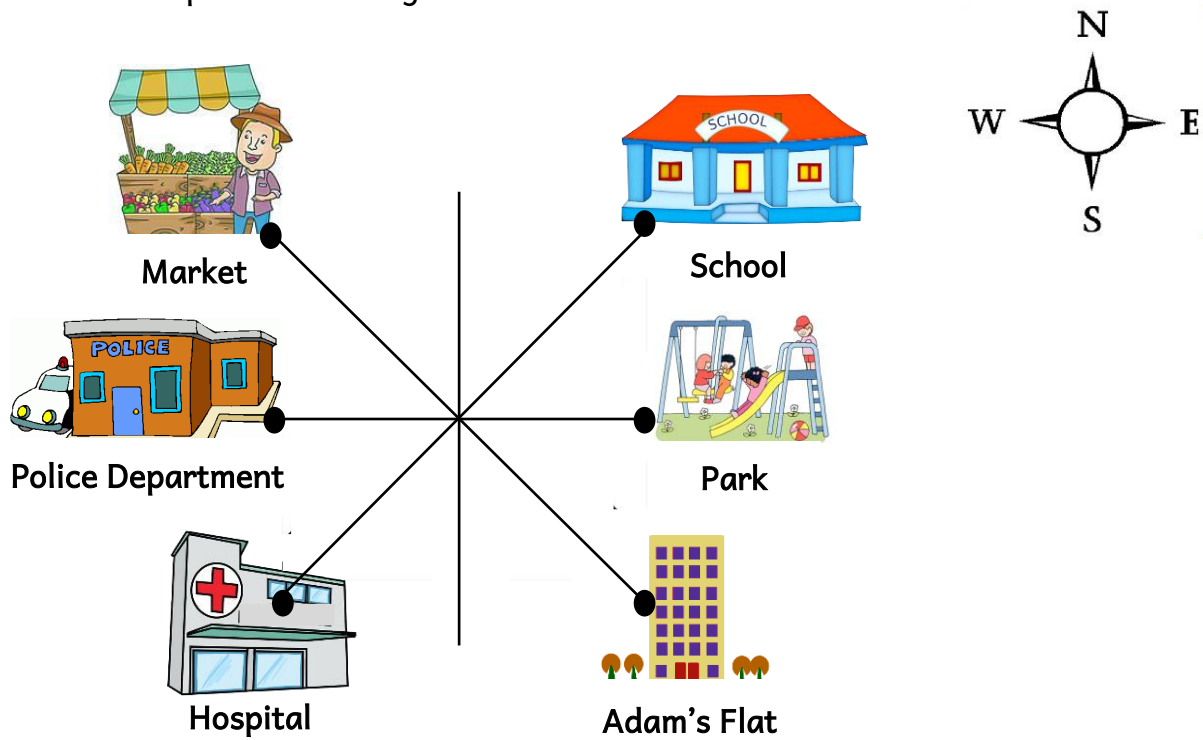


b) A 3-d shape with **1 face**, **no edges** and **no vertices** is a

circle sphere cylinder

(4 marks)

3. This is the plan of a village.



Fill in the blanks with compass directions.

- a) Adam's Flat is _____ of the Park.
- b) The Police Department is _____ of the Park.
- c) The School is _____ of Adam's Flat.
- d) The School is _____ of the Hospital.

(4 marks)

4. George has 1.5 kg of sugar.

He buys another $\frac{3}{4}$ kg of sugar.

Then, he packs all the sugar in packets of 10 g each.

How many **packets** of sugar can George fill?



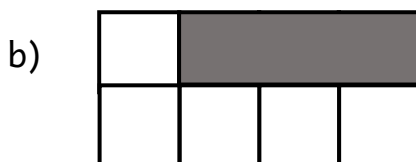
Show your
working here.

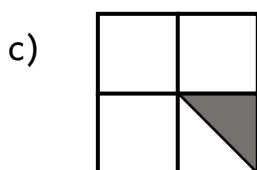
_____ packets

(4 marks)

5. What fraction is shaded?

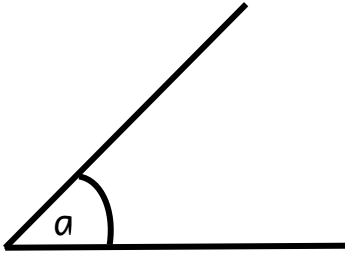






(5 marks)

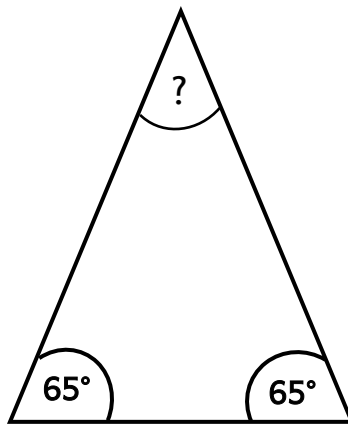
6a) Use a protractor to measure angle a.



$a =$ _____ ^o

b) An angle of 100° is obtuse. Explain why.

c) Look at the triangle below.



i) Underline the correct answer.

This triangle is called (an isosceles, a scalene, an equilateral) triangle.

ii) Work out the missing angle of this triangle.

_____ ^o

(5 marks)

7. Fill in using the number cards in each question **only once**.
There are **extra cards** in some of the questions.

- a) I am the **largest 4-digit even number** you can make with these cards.
What number am I?

3

5

0

6

 →

- b) I am a **3-digit number, smaller than 400, but greater than 300**.
I am **divisible by both 6 and 10**.

What number am I?

3

5

0

6

 →

- c) I am a **2-digit odd number and a multiple of both 7 and 9**.
What number am I?

3

5

0

6

 →

- d) I am a **4-digit number**.
When rounded to the **nearest 100**, I become **3700**.
What number am I?

3

5

0

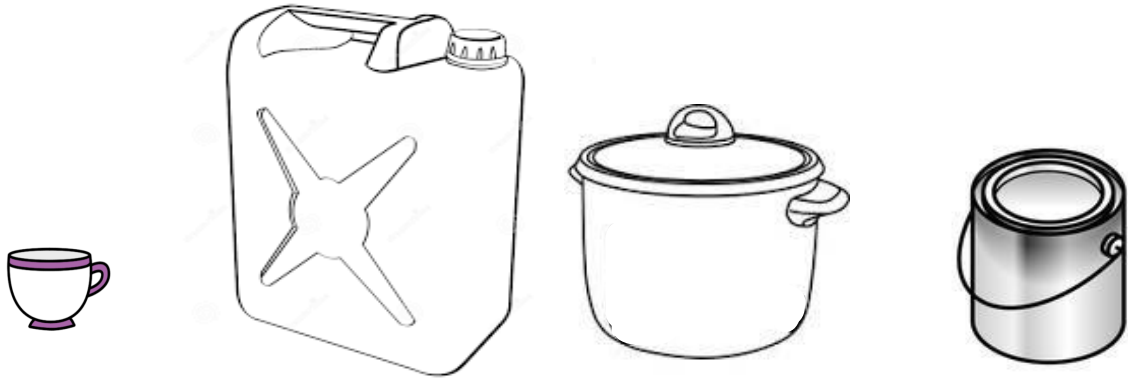
6

 →

(5 marks)

8a) The table below shows the capacity of some containers.

Write litres (*l*) or millilitres (*ml*) to complete the capacity.



cup	water tank	saucepan	tin of paint
70 ____	10 ____	2.8 ____	550 ____

b) How many such cups of water  are needed to fill the above saucepan?

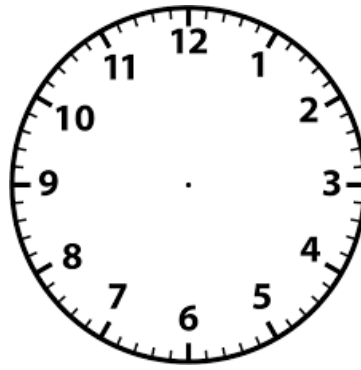
Show your working here.

_____ cups

(5 marks)

9. Lorna leaves home at 15:25 to go to football training.

a) Draw this time on the clock.



b) Training starts 45 minutes later.
At **what time** does training **start**?
Give your answer in **24-hour clock time**.

Show your
working here.

c) Lorna's football training session is $1\frac{1}{2}$ hours long.

At **what time** does the training session **finish**?

Give your answer in **12-hour clock time**.

Show your
working here.

(5 marks)

10. 200,140 tourists arrived in Malta during the winter season.

- 20% of them were from **Italy**.
- $\frac{1}{4}$ of them were from **Germany**.
- The **rest** were from **other countries**.



a) What **percentage** of tourists came from **Germany**?

 %

b) How many **tourists** came from **Italy**?

Show your
working here.

 tourists

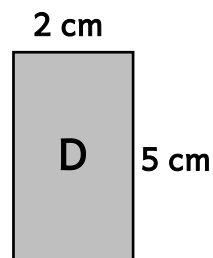
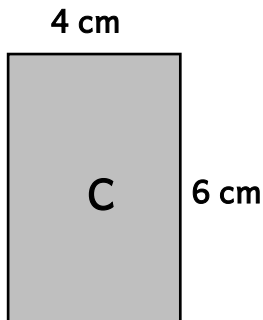
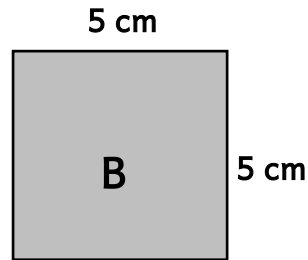
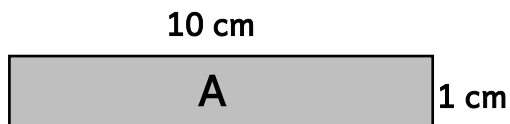
ci) What **percentage** of tourists came from **other countries**?

 %

ii) Write your answer as a **fraction** in its **lowest terms**.

(5 marks)

11a) Look at the **shapes** below.



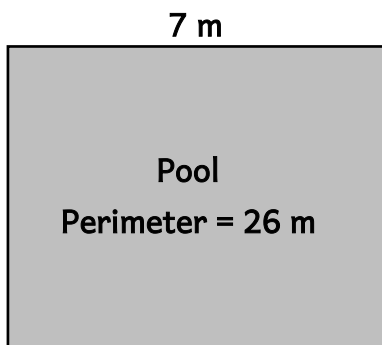
i) Which of the above **shapes** (A, B, C, D) have:

- the **same area**? _____ and _____
- the **same perimeter**? _____ and _____

ii) The **total area** of two of the above shapes is **49 cm²**.

The two shapes are _____ and _____ .

b) The rectangle below represents a pool.



Breadth = m

Area = m²

(5 marks)

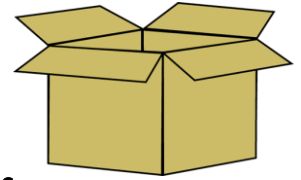
12. Liam has a number of books to pack in boxes.

He has **fewer than 30 books**.

When he packs **6 books in each box**, there are **3 books left**.

When he packs **8 books in each box**, there are **5 books left**.

How many **books** does he have?

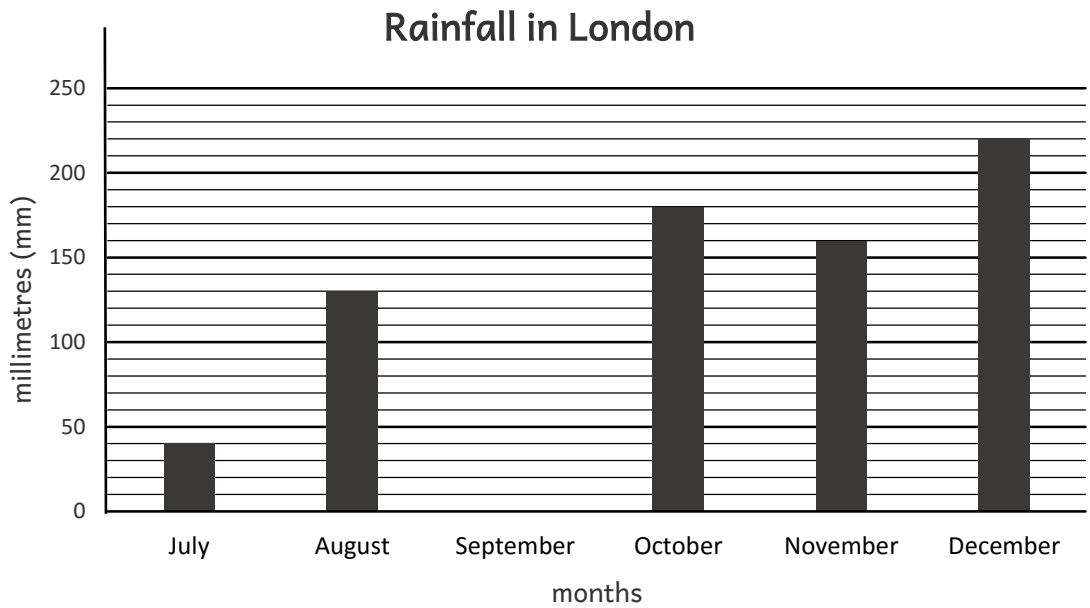


Show your
working here.

_____ books

(5 marks)

13. The bar chart below shows the amount of rainfall in London during the last 6 months of a particular year.



a) The total amount of rainfall during these 6 months was 880 mm.

i) Work out the amount of rainfall in September.

Show your working here.

mm

ii) Complete the bar chart for the month of September.

b) The least amount of rainfall was in .

(6 marks)

14. The following table shows the height of a group of children.



BOYS			GIRLS			
James	Tom	Samuel	Anne	Jane	Danica	Krista
120 cm	125 cm	1.3 m	121 cm	120 cm	1 m 27 cm	132 cm

a) Work out the mean (average) height of this group of children.

Show your working here.

_____ cm

b) Tick (✓) the sentence which is TRUE.

The mean height of the boys is equal to the mean height of the girls.

or

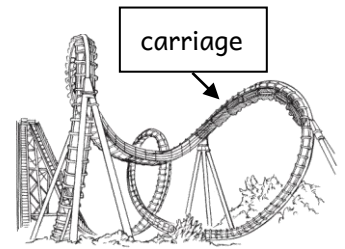
The total height of the boys is equal to the total height of the girls.

Explain your answer by showing the working.

Show your working here.

(6 marks)

15. At the Fun Park, the roller coaster has **23 carriages**.
Each carriage holds **12 people**.



- a) How many people are on the roller coaster when it is full?

Show your working here.

_____ people

- b) Below there are the ticket prices to go on the roller coaster.

Ticket Prices	
Adults: €4.50	Children: €3
Groups of 6: €20	

A family of **10 people** want to go on the roller coaster.

There are **3 children** in this family.

What is the **best price** that this family can get?

Show your working here.

€ _____

(6 marks)

16. Below there is the calendar for the month of June in the year 2016.

June 2016						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

a) Maria's birthday is on 1st July.

On which day will she celebrate her birthday in 2016?

Monday Tuesday Friday Saturday

b) Today is Thursday, 2nd June 2016.

There are 100 more days to go for Gianni's birthday.

On which day will Gianni celebrate his birthday in 2016?

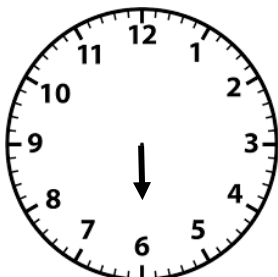
Monday Tuesday Friday Saturday

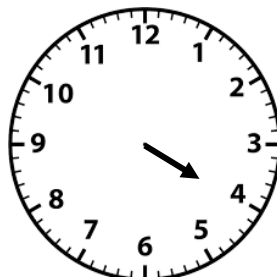
c) Maria and Gianni are invited to their friend's birthday party today.

The party starts at half past four.

Tick (✓) the clock face below that shows the starting time of the party.

Note: All clocks below have lost their minute hand!









(6 marks)

END OF PAPER