

END OF PRIMARY BENCHMARK

**MATHEMATICS
WRITTEN PAPER**

80 Marks

1 hour 15 minutes

1. **Work out:**

<p>a) $40 + 29 = \underline{\quad}$</p> <div style="text-align: right; margin-right: 50px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>	<p>b) $\underline{\quad} - 75 = 109$</p> <div style="text-align: right; margin-right: 50px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>
<p>c) $22 \times \underline{\quad} = 2200$</p> <div style="text-align: right; margin-right: 50px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>	<p>d) $515 \div 5 = \underline{\quad}$</p> <div style="text-align: right; margin-right: 50px;"> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto;"></div> </div>

2. **Which shape am I?**

Complete the following table about flat and solid shapes.

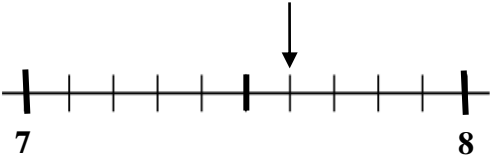
Use the shape names below.


(Note: There are 2 extra shape names.)

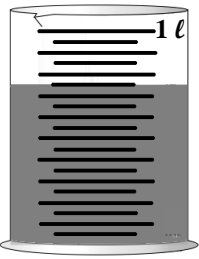
- | | | |
|------------------|---------------|-----------------|
| cube | cone | cylinder |
| rectangle | sphere | square |

<p>a) I look like a football.</p>	
<p>b) All my 6 faces are squares.</p>	
<p>c) I am a flat shape with 4 lines of symmetry.</p>	
<p>d) I have 3 faces, 2 edges and 0 vertices.</p>	

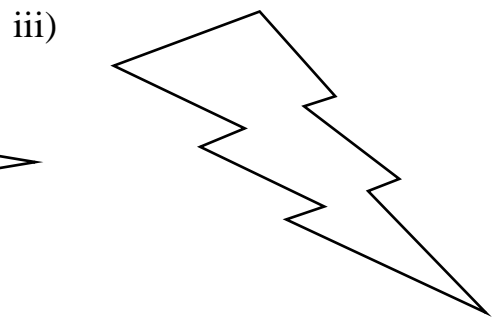
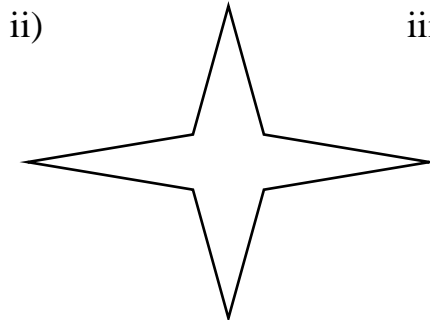
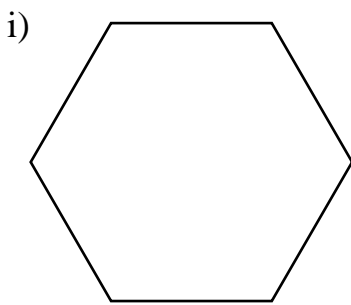
3. Look at each scale and complete the sentences.

a)  The arrow points to

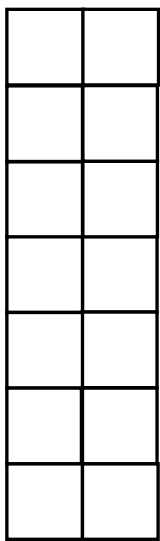
b)  The weighing scales read kg.

c)  This is a 1 litre measuring jug.
It contains ml of water.

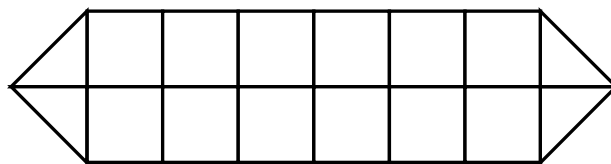
4a) Draw all the possible lines of symmetry, if any, of the following shapes.



b) Which two of the shapes below have the same area?

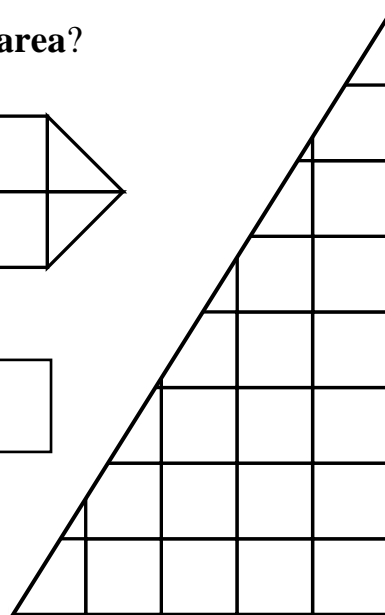


Shape A



Shape B

Shape and Shape
have the same area.



Shape C

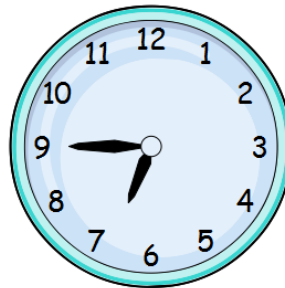
5. Choose numbers from the following table to fill in the boxes below.
Use each number only once.

34	35	36	37	38	39	40	41
42	43	44	45	46	47	48	49

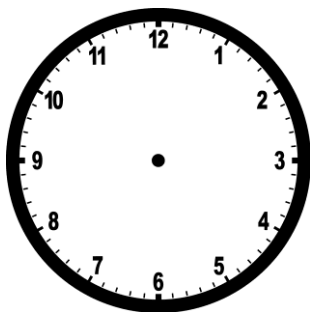
- a) two **odd** numbers
- b) two **multiples of 8**
- c) **two square** numbers
- d) a **pair** of numbers that **adds to 90**

- 6a) This clock shows the time Jamie wakes up in the morning during the week.
At what time does Jamie wake up?

_____ : _____



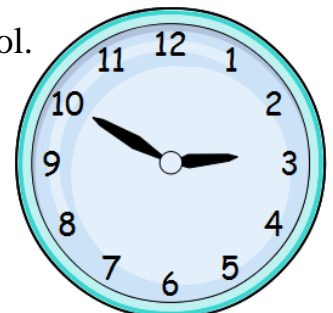
- b) Jamie leaves home for school at **5 minutes to 8**.
- i) **Mark** this time on the clock. ii) He arrives at school **15 minutes later**.
At what time does he **arrive** at school?



_____ : _____ a.m.

- iii) This clock shows the time Jamie arrives back home from school.
Write down an estimate for the **size** of the **smaller angle**,
between the minute hand and the **hour hand**, on this clock.

_____ °



7a) **Tick** () the correct statement for **each** of these two decimal numbers.

(*Note: There is only ONE correct statement each time.*)

i) **11.25**

It has got 2 tenths.

It has no wholes.

It is equal to $11\frac{1}{2}$.

ii) **16.7**

It is equal to 167×10 .

It has got 7 hundredths.

When rounded to the nearest whole number, the result is 17.

b) Use all the **number cards** below to **write a decimal number** which:

- has got no tenths
- has 8 in the units position
- is between 20 and 30

0	2	6	8	→			·		
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c) **Circle the numbers** which together add up to the **decimal number in the box**.

8

5

0.9

0.09

50

0.8

58.9

8. Martina is sick. The doctor tells Martina to take **5 millilitres (ml)** of syrup **3 times a day** for **5 days**.

a) **How many millilitres (ml)** of syrup does Martina take everyday?



_____ ml

b) The capacity of the **bottle** is **90 millilitres (ml)**.
How much syrup is left in the bottle after 5 days?

_____ ml

c)



teaspoon
5 ml



water bottle
1.5 l

Work out the number of teaspoons Martina needs in order **to fill the whole water bottle** with water.

_____ teaspoons

9. A group of **seven friends** are collecting the stickers of their favourite cartoon characters.

Friends	Jane	Mario	John	Susan	David	Mary	Tom
Number of stickers	46	87	47	61	90	13	76

- a) Work out the **total number** of cartoon stickers that the friends have collected.

_____ stickers

- b) What is the **mean** number of cartoon stickers collected by the seven friends?

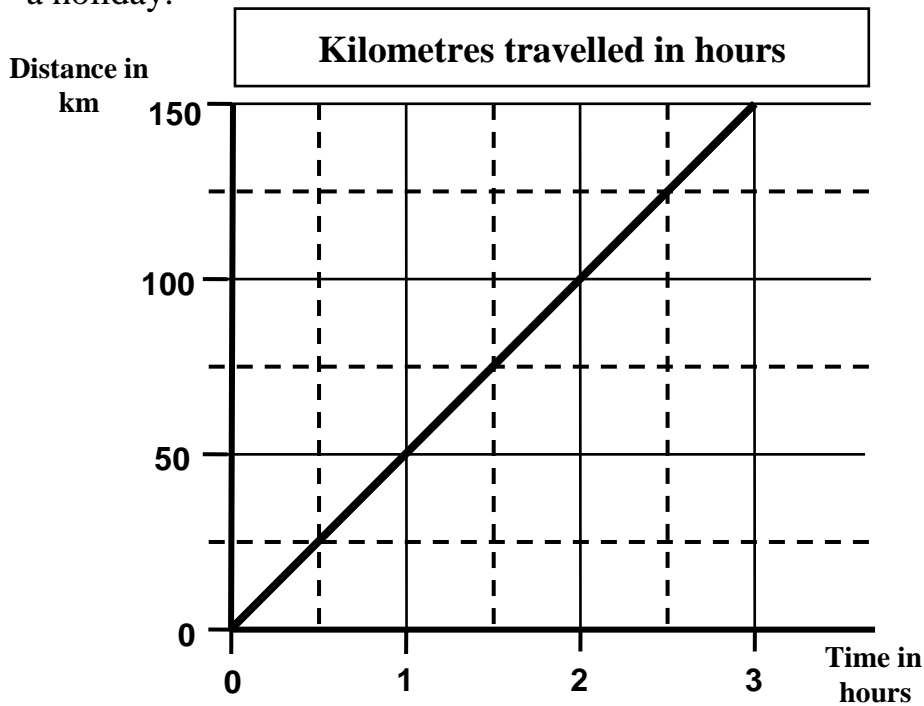
_____ stickers

- c) **Write down the total number of stickers collected by the girls as a fraction of the total number of stickers collected by all the friends.**

Write your answer in its **simplest form**.

$$\frac{\square}{\square}$$

10. This graph shows the **distance travelled** and the **time taken** by a tourist on a holiday.



a) How many kilometres did he travel in:

i) 3 hours?

 km

ii) 90 minutes?

 km

b) How long did he take to travel:

i) 50 km?

 h

ii) 125 km?

 h

c) The tourist wants to travel **200 km**.

i) How long will he take?

 h

ii) **Explain** your answer.

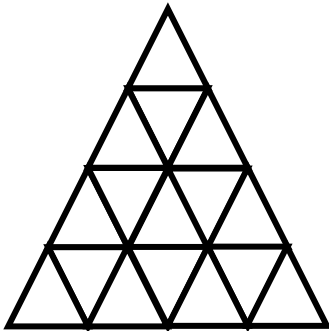
11. Julia has a number of equilateral triangles.
Each equilateral triangle has a perimeter of 12 cm.



a) Work out the length of each side of the equilateral triangle.

_____ cm

b) Julia uses these triangles to form one big equilateral triangle.



i) Work out the perimeter of the big equilateral triangle.

_____ cm

ii) Shade $\frac{1}{4}$ of the big equilateral triangle.

12. Maria's Greengrocer sells 8 kg of oranges for €3.84.
Karl's Greengrocer sells 6 kg of oranges for €3.30.



a) i) Which of these two greengrocers sells oranges at a cheaper price?

Tick () the correct answer.

Maria's Greengrocer

Karl's Greengrocer

ii) By how much (per kg) are the oranges cheaper?

€ _____

b) Dad wants to buy 12 kg of oranges.

How much does he save by buying from the cheaper shop?

€ _____

13. All the Year 6 children in a school were asked about their favourite hobby

$\frac{1}{10}$
of all the
children like
**COMPUTER
GAMES**

30 children
like **SPORTS**
best

$\frac{1}{5}$
of all the
children like
READING best

10%
of all the
children like
**COLLECTING
STICKERS**

$\frac{1}{10}$
of all the
children have
**OTHER
HOBBIES**

a) What **percentage** of the children like **computer games**?

_____ %

b) **More children prefer reading** rather than **collecting stickers**.

Is this **True or False**? Tick () the correct answer.

True

False

Give a reason for your answer.

c) **How many Year 6** children are there in this school?

_____ children

14. The problems a) and b) shown below are incomplete.

You need at least one more fact from A, B, or C before you can solve them.

First choose the missing fact and then work out the problems.

- a) There are **6 rows of soldiers** with an **equal number of soldiers in each row**.
How many soldiers are there?

Missing fact:

A.	There are over 100 soldiers.
B.	There are 25 soldiers in each row.
C.	There are 12 missing soldiers.

Working:

Ans: _____ soldiers

- b) For a school outing, the headmaster **needs to get buses for 810 students**. **How many buses does he need?**

Missing fact:

A.	One bus carries 30 students.
B.	30 buses carry 1 student.
C.	30 students were absent for the outing.

Working:

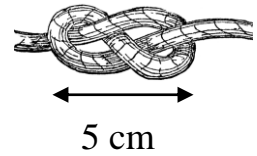
Ans: _____ buses

15. Dad has **9 pieces of rope**, each **34 cm long**.

a) What is the **total length** of the **9 pieces of rope**?

_____ cm

b) Dad **tied all the pieces of rope together** to form a long rope.
He used **5 cm** of rope to **make each knot**.



i) How many **knots** are needed to tie **all the pieces together**?

_____ knots

ii) How **long** is the rope when all the **9 pieces** are tied **together**?

_____ cm

c) Dad wants to use this rope to reach a **height of 2.95 m**.

i) Does he have **enough rope** to **reach this height**?

Tick () the correct answer.

Yes No

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

16. From a boutique

a suit and a hat
cost
€88



a dress and a hat
cost
€68



a suit and a dress
cost
€130



a) Deborah wants to buy **two suits, a hat and a dress.**
How much will Deborah spend **altogether?**

€ _____

b) What is **the price of one suit?**

€ _____

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