

**END OF PRIMARY BENCHMARK**

**2021**

**MATHEMATICS**

**WRITTEN PAPER**

**80 marks**

**1 hour 30 minutes**

1. Work out.

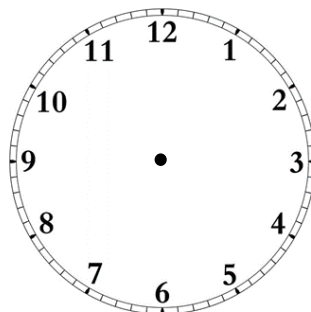
|  |  |
|--|--|
| a) $340 + 125 =$ _____<br><br><input data-bbox="534 533 805 649" type="text"/>     | b) $456 - 312 =$ _____<br><br><input data-bbox="1177 533 1449 649" type="text"/>   |
| c) $23 \times 54 =$ _____<br><br><input data-bbox="534 996 805 1113" type="text"/> | d) $416 \div 4 =$ _____<br><br><input data-bbox="1177 996 1449 1113" type="text"/> |

(4 marks)

2. Amy watches a film.

a) The film starts at **14:30**.

Draw hands to show this time on the clock face below.



b) The film is **149 minutes** long.

**149 minutes** =  hours  minutes

(4 marks)

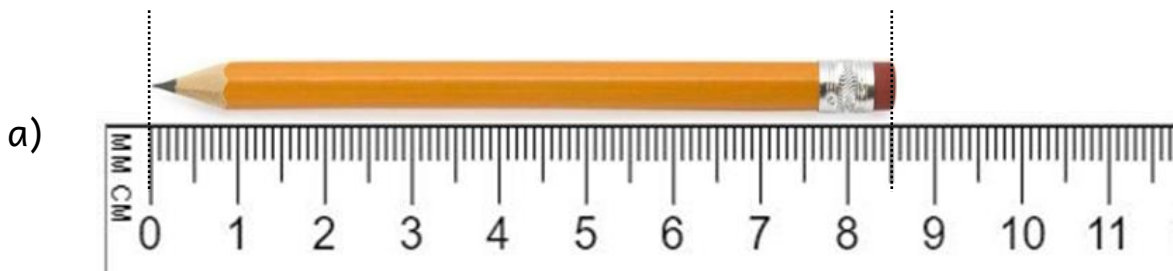
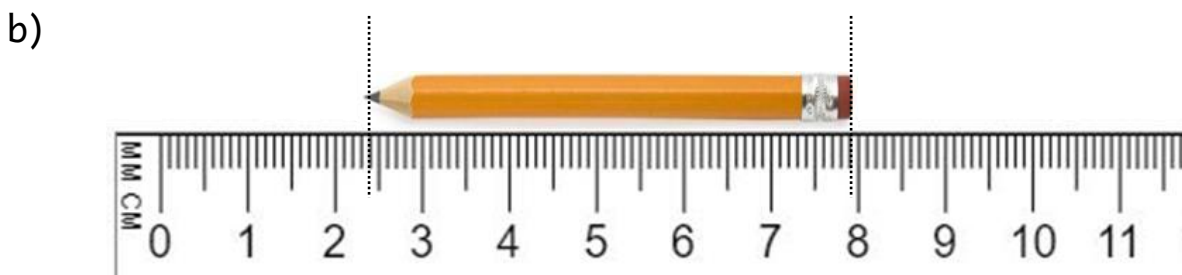
3. Fill in with  $<$ ,  $=$  or  $>$ .

- a)  $6 \frac{2}{5}$  km   $6.4$  km
- b)  $4.5$  l   $450$  ml
- c)  $\frac{7}{10}$  m   $700$  cm
- d)  $6.3$  l +  $0.05$  l   $6.8$  l

(4 marks)

4. Calculate the **length** of each pencil in the pictures below.

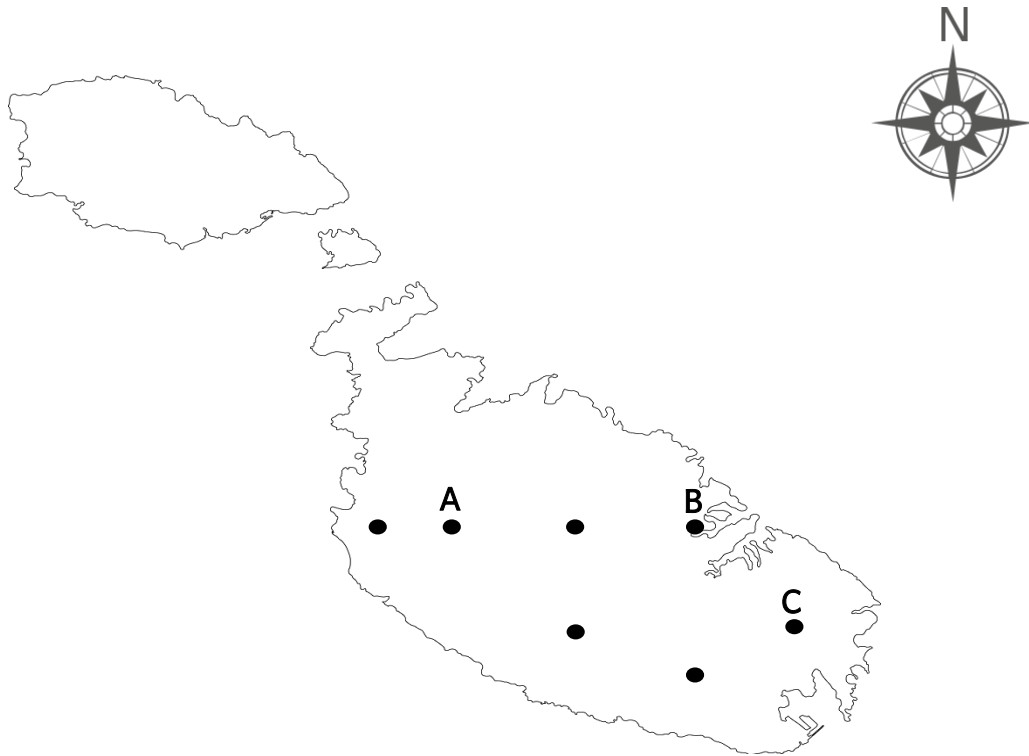
**Note:** Do not use your ruler to measure.

 cm cm       mm

(4 marks)

5. Look at the map below.

A, B and C are three different villages in Malta.



a) What direction is **Village A** from **Village B**?

b) What direction is **Village C** from **Village B**?

c) There are some locations on the map which are not labelled.

i. **Location D** is **West** of **Location A**. **Label Location D**.

ii. **Location E** is **South West** of **Location B**. **Label Location E**.

d) Using your ruler, **draw a line** from **Location A** to **Location C**.

Then, **draw a line** from **Location C** to **Location B**. **Mark the angle**.

Tick (✓) the correct answer below.

The **angle** between these two lines is:

an **acute angle**

an **obtuse angle**

a **right angle**

(5 marks)

6a) Look at the objects below.



mug



teaspoon



bucket



bathtub

i. Which object is full when it holds  $5 \text{ ml}$  of liquid?

ii. Which object is full when it holds  $10 \text{ l}$  of liquid?

iii. Tick ( $\checkmark$ ) the **best estimate**.

The **capacity** of a **bathtub** is the same as:

5 buckets

30 buckets

1000 buckets

b) Justin's fish tank holds  $32 \text{ l}$  of water.

He uses a **4-litre container** of water to fill the fish tank.

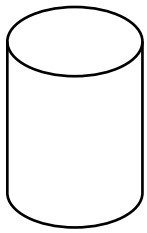
How many **4-litre containers** are needed to **fill the fish tank**?

Show your  
working here.

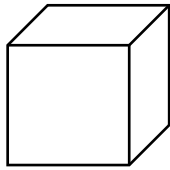
containers

(5 marks)

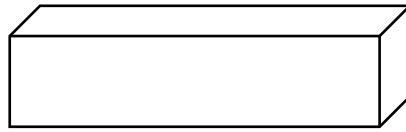
7a) Look at the shapes below:



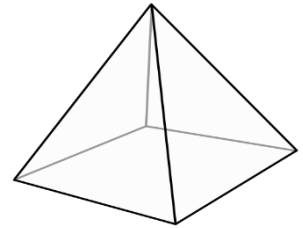
A



B



C



D

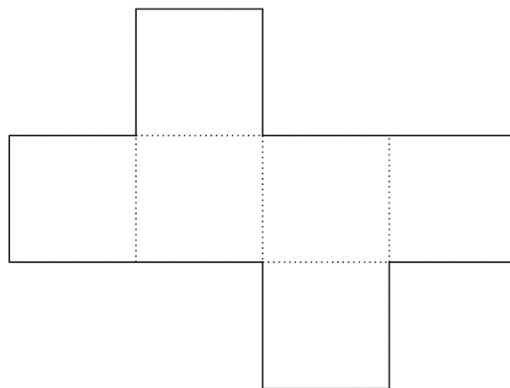
i. How many **faces** does **shape D** have?

|       |
|-------|
| faces |
|-------|

ii. Which shape has **no vertices**?

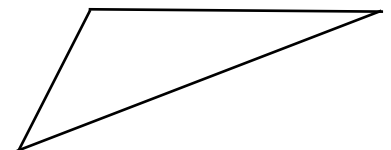
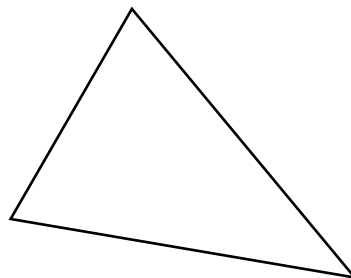
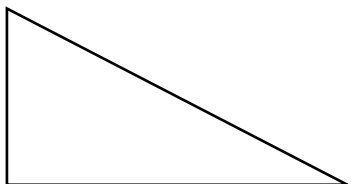
|       |
|-------|
| Shape |
|-------|

iii. Which **shape** has the following net?



|       |
|-------|
| Shape |
|-------|

b) **Shade** the **isosceles** triangle.



(5 marks)

8a) This is a **Carroll Diagram** with missing labels.

Fill in the labels in the boxes marked with a ★ and a ◆.

|                    |                      |           |
|--------------------|----------------------|-----------|
|                    | <b>Factors of 30</b> | ◆         |
| ★                  | 2, 6, 10             | 4, 16, 36 |
| <b>Odd numbers</b> | 1, 3, 5              | 9, 25, 49 |

i. Missing Label ★ is \_\_\_\_\_.

ii. Missing Label ◆ is \_\_\_\_\_.

b) There are **7 children** in a Pet Club.

The table below shows the number of pets they have in all.

| Type of Pet | dog | cat | goldfish | budgie | hamster | tortoise | snake | rabbit |
|-------------|-----|-----|----------|--------|---------|----------|-------|--------|
| Tally       |     |     |          |        |         |          |       |        |


Work out the **mean number** of pets per child.

**Show your working here.**

pets

(5 marks)

9. A school is organising a **Spring Fair Competition**.  
Participants need to **estimate the mass** of a hamper.  
Read the poster.



**SPRING FAIR COMPETITION**

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Estimate the mass of the hamper.  
Closest estimate wins the hamper.

- a) The table below shows the estimates given by **6 participants**.  
Complete the table.

| Name      | Estimate           | Convert to grams |
|-----------|--------------------|------------------|
| Matthew   | 5.05 kg            |                  |
| Elisabeth | 4830 g             | 4830 g           |
| Rita      | $4\frac{3}{4}$ kg  |                  |
| Anton     | 5 kg 20 g          |                  |
| Benjamin  | 5047 g             | 5047 g           |
| Christina | $4\frac{9}{10}$ kg |                  |

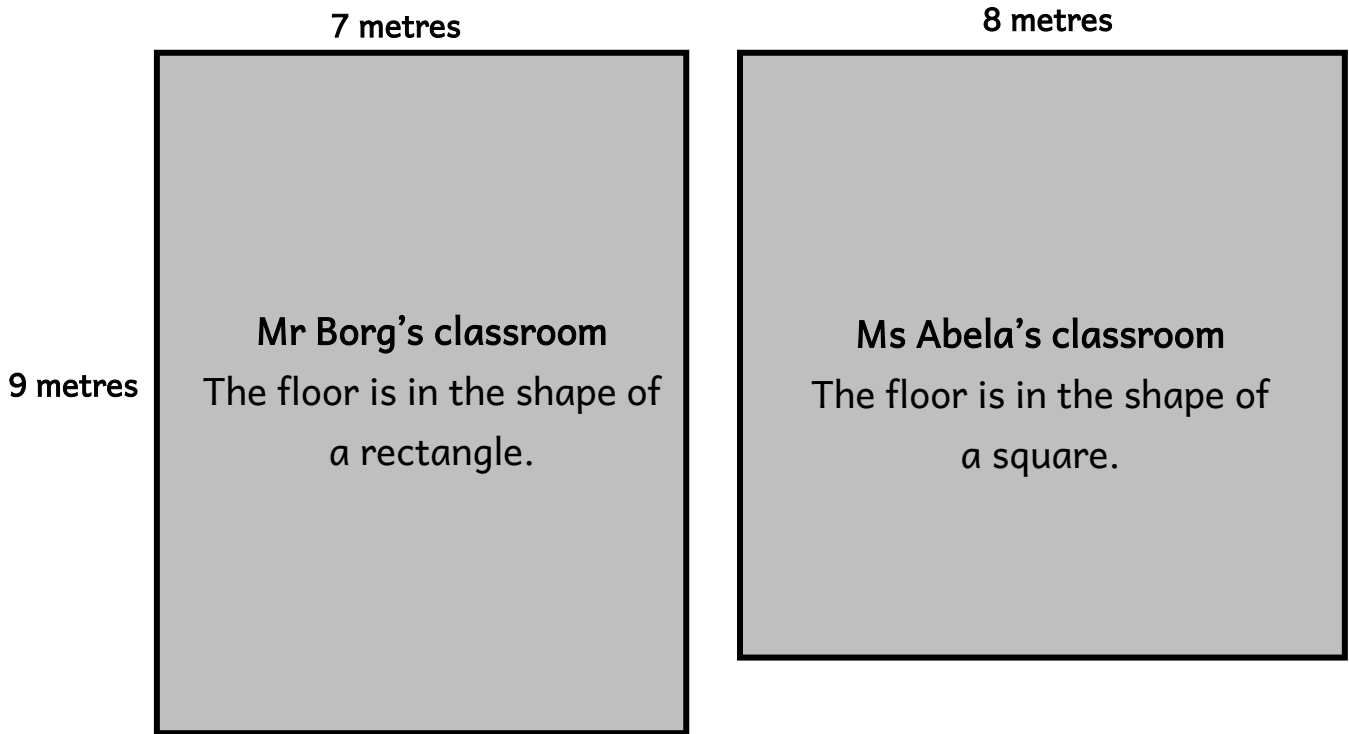
- b) The **actual mass** of the hamper is **4.97 kg**.  
**Who** wins the hamper?

**Show your  
working here.**

(5 marks)



10. The diagrams below represent Mr Borg's classroom floor and Ms Abela's classroom floor.



a) What is the **perimeter** of Mr Borg's classroom floor?

metres

b) **Who** has the classroom with the larger floor area?

Tick (✓) the correct answer.

Mr Borg

Ms Abela

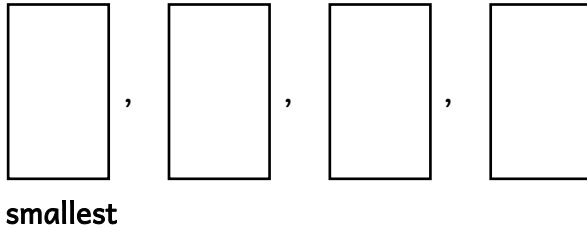
Show your working to explain your decision.

Show your working here.

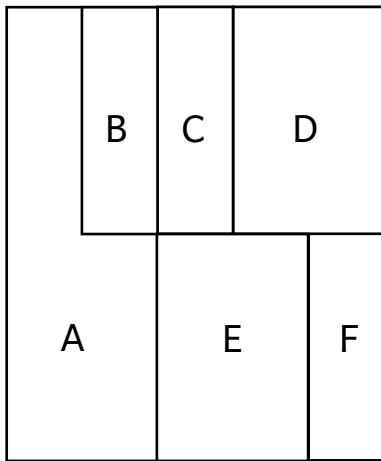
(5 marks)

11a) Write these fractions in ascending order.

$$\frac{1}{2}, \frac{3}{4}, \frac{3}{10}, \frac{4}{20}$$



b) Look at the shape below.



Fill in each blank ( \_\_\_\_\_ ) with **one letter** from the shape above:

- i. \_\_\_\_\_ is  $\frac{1}{10}$  of the **whole shape**.
- ii. \_\_\_\_\_ is **one fifth** of the **whole shape**.
- iii. **A** is **equal** to \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ **together**.
- iv. John wants to **shade 0.5** of the **whole shape**.  
He must **shade** \_\_\_\_\_ and \_\_\_\_\_.

(5 marks)

12. Look at the pattern below.

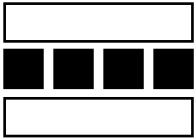


Figure 1

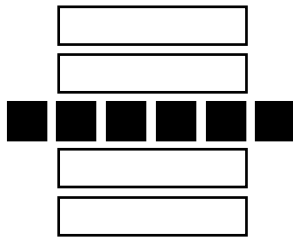


Figure 2

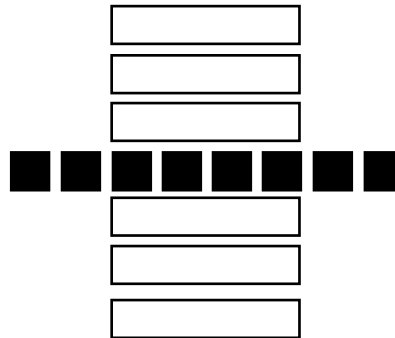


Figure 3

a) In Figure 4 there are:

black squares and

white rectangles.

b) In Figure 8 there are:

black squares and

white rectangles.

c) There are 72 black squares and

white rectangles in

Figure

Show your working here.

(5 marks)

13. A baker uses **250 g** of flour to make **10 small buns**.



a) The baker makes **1 small bun** with \_\_\_\_\_ g of flour.

b) How much **flour** does she use to make **50 small buns**?

**Show your working here.**

g

c) The baker buys flour in sacks.

Each sack weighs 100 kg.

How many **small buns** does she make with **1 sack of flour**?

**Show your working here.**

small buns

d) The baker orders flour every **6 weeks**.

She orders flour on **4 May 2021**.

On which date does she place the next order?

| MAY 2021 |         |           |          |        |          |        |
|----------|---------|-----------|----------|--------|----------|--------|
| Monday   | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|          |         |           |          |        | 1        | 2      |
| 3        | 4       | 5         | 6        | 7      | 8        | 9      |
| 10       | 11      | 12        | 13       | 14     | 15       | 16     |
| 17       | 18      | 19        | 20       | 21     | 22       | 23     |

The date of next order is \_\_\_\_\_ June 2021.

(6 marks)

14a) Chris has a jigsaw puzzle of **90 pieces**.

- i. He completes  $\frac{1}{5}$  of the puzzle in the morning.

How many **pieces** is that?



Show your working here.

pieces

- ii. By lunchtime Chris completes  $\frac{2}{3}$  of the puzzle.

How many **pieces** are left to complete the whole puzzle?

Show your working here.

pieces

- b) Brenda is completing another puzzle.

She completes  $\frac{2}{5}$  of her puzzle.

She needs **120 more pieces** to complete her puzzle.

How many **pieces** are there in Brenda's puzzle?



Show your working here.

pieces

(6 marks)

15. At school there is a Food Fest.

Visitors can buy:

1 bag of cookies



1 slice of pizza



1 fruit kebab



a) Liam buys **7 bags of cookies**. Each bag costs **€1.45**.

How much does Liam spend?

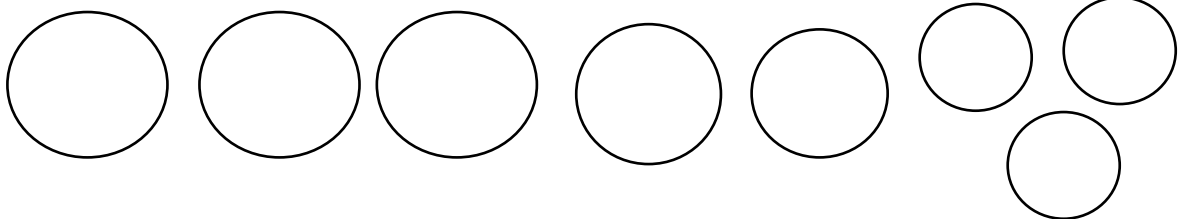
Show your  
working here.

€

b) George spends **€7.65**.

He pays the **exact amount** with **8 coins**.

Below write the **value of each coin** which George uses to pay.



c) Jane buys **3 slices of pizza** and **1 fruit kebab**.

**1 fruit kebab** costs as much as **3 pizza slices**.

She spends **€9.90**.

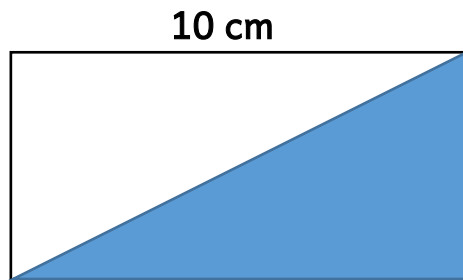
What is the cost of **1 fruit kebab**?

Show your  
working here.

€

(6 marks)

16a) The **area** of the **shaded triangle** below is  $45 \text{ cm}^2$ .

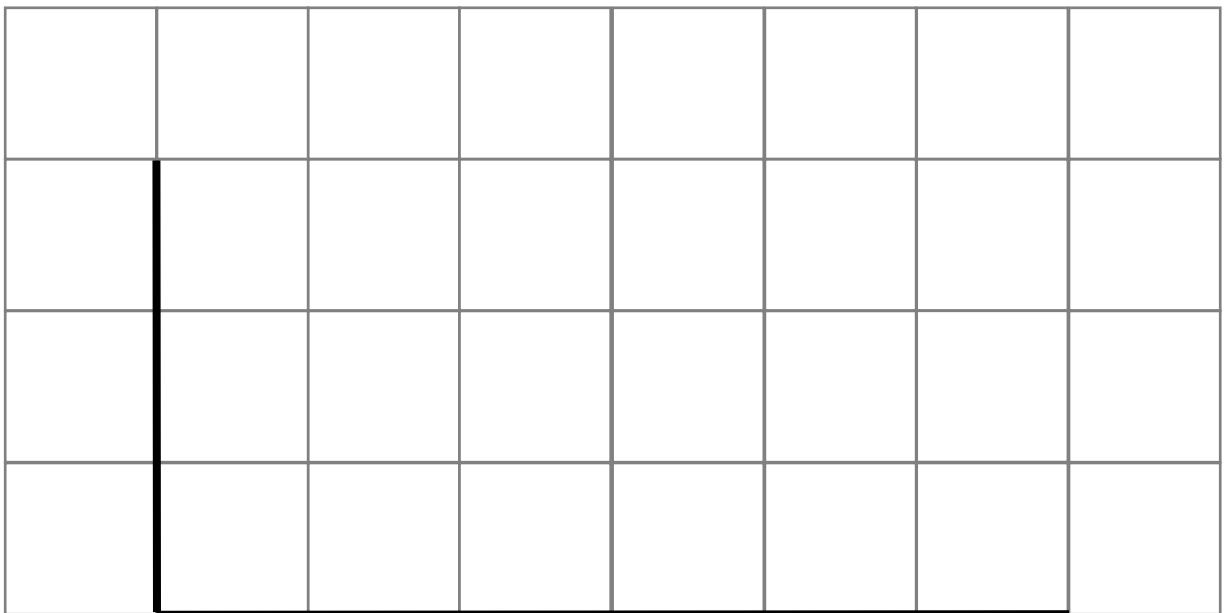


What is the **breadth** of the **rectangle**?

Show your working here.



- b) **2 sides** of an incomplete shape are drawn on the grid below.  
Each square on the grid is of side  $2 \text{ cm}$ .  
**Draw 4 more sides** to make a shape with an **area of  $56 \text{ cm}^2$** .



(6 marks)

END OF PAPER