END OF PRIMARY BENCHMARK

2022

SECOND SESSION

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

1. **Work out.**

a) 423 + 87 = _____	b) 862 − 121 = _____
c) 36 × 12 = _____	d) 728 ÷ 7 = _____

(4 marks)

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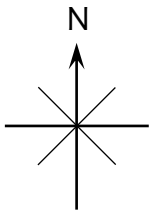
2. Work out the **size of the angle** in:



a) **one whole turn**. ____ **o**

b) a turn from **S** to **SW clockwise**. ____ **o**

c) a turn from **E** to **N clockwise**. ____ **o**

d) a turn from **NE** to **NW anticlockwise**. ____ **o**

(4 marks)

3. The table below shows the **mass** of **4 boys**.

boys	Andrea	Jurgen	Kris	Manuel
mass in kg	34·2	34	34·3	$34\frac{1}{2}$

a) Fill in with **names** from the table above.

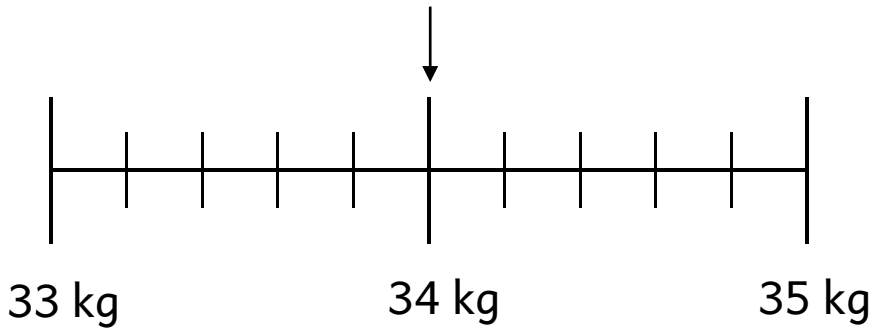
i. Who is the **lightest**? ☐

ii. Who is the **heaviest**? ☐

iii. ☐ and ☐ **together** weigh **68·7 kg**.

b) The arrow (↓) on the scale below shows Jurgen's mass.

Draw an arrow on the same scale to show **Andrea's mass**.



(4 marks)

4. Nina prepares some smoothies for her friends.
She has **2 small cartons of milk**.
Each carton contains **0·22 ℓ**.

a) How many **millilitres** of milk does Nina have?

Show your working here.

ml

b) Nina needs **1 litre of milk** to make all the smoothies.
How many **more cartons of milk** does Nina need to buy to have **1 litre of milk**?
Note: All cartons of milk have the same capacity as above.

Show your working here.

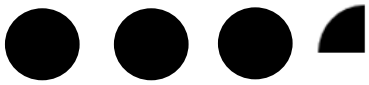
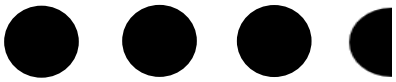
cartons

(4 marks)

5. The table and the pictograph below show the favourite colour of **all** the children at Sunshine School.
Every child votes for **one (1)** favourite colour.

Note: Both the table and the pictograph are incomplete.

Colour	Black	Green	Orange	Violet	Yellow
Number of Children	5	65	75		70

Colour	Number of Children
Black	
Green	
Orange	
Violet	
Yellow	

Key
● = 20 students

a) Use the pictograph to **complete the table**.

b) Use the table to **complete the pictograph**.

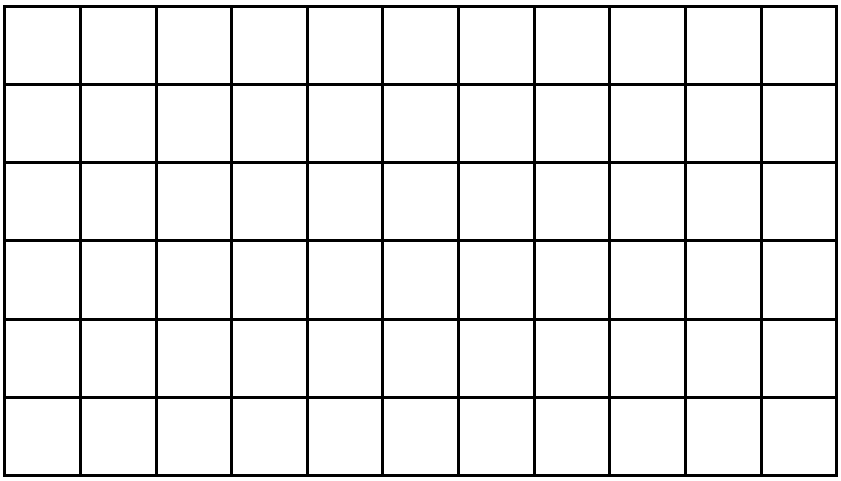
c) How many **children** attend Sunshine School? ____ **children**

d) What **fraction** of all the students at Sunshine school vote **green**?

Give your answer in its **lowest terms**. ____

(5 marks)

6. Each square in the grid below has an **area of 1 cm^2**.



a) i. On the grid, **draw** a **square** of **area 25 cm^2**.

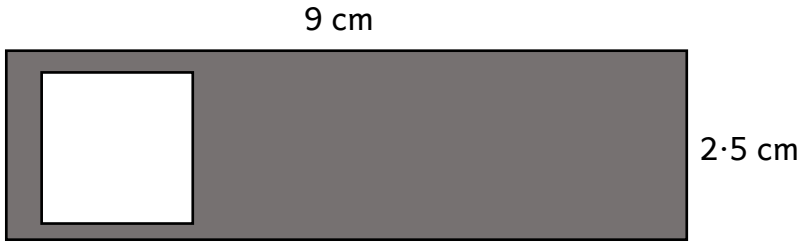
ii. What is the **perimeter** of the **square**?

cm

b) The **area of the rectangle** in the diagram below is **22·5 cm^2**.

The **area of the square** in the diagram is **4 cm^2**.

Work out the **area of the shaded** part.

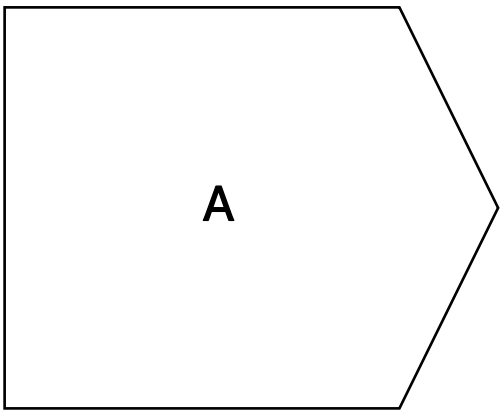


Show your working here.

cm^2

(5 marks)

7. Look at this diagram.



a) **Fill in.**

Shape A is an **irregular** ____ .

b) **Fill in** this table with the correct amounts.

Shape A has:

sides	right angles	obtuse angles	acute angles

(5 marks)

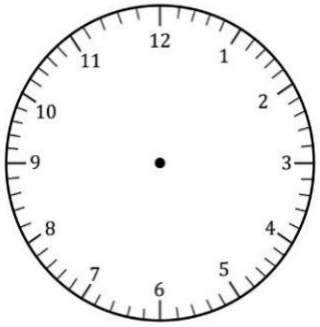
8. A tourist takes the **first trip** to Gozo by ferry and returns to Malta on the **last trip**.
Here is the official schedule:

First Trip	**Departure from Malta**	**Arrival in Gozo**
	7:00 am	7:35 am
Last Trip	**Departure from Gozo**	**Arrival in Malta**
	10:50 pm	?

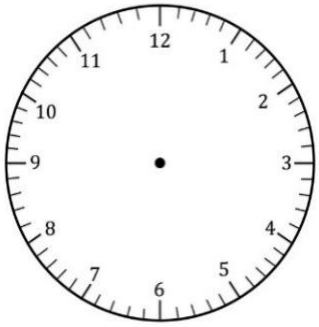
a) Fill in:

A ferry trip **lasts** for ____ **minutes** .

b) **On** the clocks below draw the **Departure time** and **Arrival time** of the **first trip**.



Departure from Malta



Arrival in Gozo

c) The **last trip from Gozo** leaves **20 minutes later** than the time on the schedule.
At what time does the tourist **arrive back in Malta**?

Show your working here.

____ : ____ **pm**

(5 marks)

9. The table below shows the temperature in Malta for four consecutive days in May.

Day	Wednesday 18th May 2022	Thursday 19th May 2022	Friday 20th May 2022	Saturday 21st May 2022
Temperature (in degrees Celsius)	28	24	23	25

a) Work out the **mean temperature per day** during the period **18th May 2022 to 21st May 2022**.

Show your working here.

degrees Celsius

b) The **temperature on Sunday 22nd May 2022** is **20 degrees Celsius**.
Work out the **mean temperature per day** during the period **18th May 2022 to 22nd May 2022.**

Show your working here.

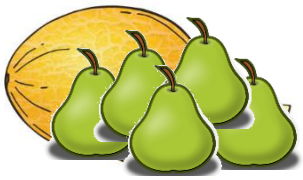
degrees Celcius

(5 marks)

10a) **1 melon** and **5 pears cost €7·15**.

Emma pays **€11·91** for **1 melon and 12 pears**.

How much does **1 pear** cost?



Show your working here.

€

b) Peaches cost **€2·70** per **500 grams**.

Ben buys **2·5 kilograms** of peaches.

What is the cost of the **peaches that Ben buys**?

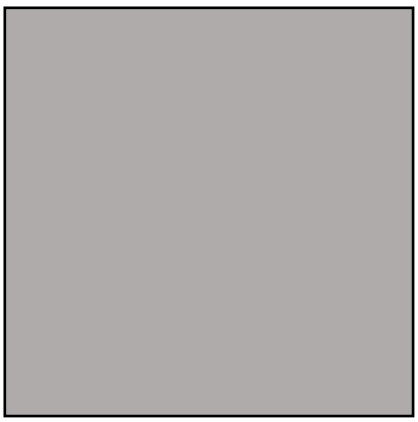
Show your working here.

€

(5 marks)

11. A rectangle and a square have the **same area**.

Note: The rectangle and square below are not drawn to scale.



a) The **perimeter** of the square is **24 cm**.

Work out the **area of the square**.

Show your working here.

cm²

b) The **length** of the rectangle is **9 cm**.

Work out the **breadth of the rectangle**.

Show your working here.

cm

c) The **perimeter** of the **rectangle** is **cm** .

(5 marks)

12. In her money box Berta has **€2 coins and €5 notes only**.
For every €5 note, Berta has two €2 coins.
Altogether Berta has **€504** in her money box.

a) How many **€2 coins** does Berta have?

Show your working here.

coins

b) Berta is saving up for a new laptop which costs **€682**.
How much more does Berta need to save to buy the laptop?

Show your working here.

€

(5 marks)

13a) Mason collects Superhero cards.
His album can hold **72 cards**.

$\frac{3}{4}$ **of the album** is **full**.

How many more Superhero cards does Mason need to complete the album?

Show your working here.

cards

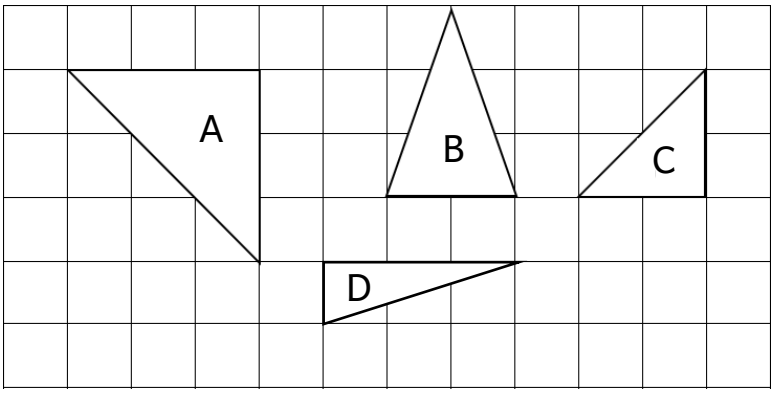
b) Mason spends $\frac{1}{3}$ **of his weekly pocket money** on snacks.
He spends **half of the remaining money** on Superhero cards.
Mason has **€8 left**.
Work out the amount Mason gets as weekly pocket money.

Show your working here.

€

(6 marks)

14. The grid below is made up of squares.
Look at the **triangles**.



a) Underline the correct answer:

i. (Triangle A, Triangle B, Triangle C, Triangle D) is **NOT** an **isosceles triangle**.

ii. (Triangle A, Triangle B, Triangle C, Triangle D) is **NOT a right-angled triangle.**

b. Martha writes some statements about a **triangle**.
Tick (✓) True or False.

		True	False
i.	A triangle can have **2 acute angles**.		
ii.	A triangle can have **2 obtuse angles**.		
iii.	A triangle can have **all angles equal**.		
iv.	The angles in **any triangle add up to 180°**.		

(6 marks)

15a) It is **Wednesday 15th June 2022** today.

i. Lara celebrates her birthday on the **2nd July**.
Which **day of the week** is the **2nd July 2022**?

ii. Mum celebrates her birthday **90 days from today**.
In which **month** does mum celebrate her birthday?

Show your working here.

b) **Two years ago** dad's age was **double** that of his son Luke.
Now, Dad is **48 years old**.
How **old** is Luke **now**?
Note: Show working to explain your answer.

Show your working here.

years old

(6 marks)

16. The total **mass** of Bag A, Bag B and Bag C is **60 kilograms.**

Bag A

Bag B

Bag C

a) The **mass** of **Bag A and Bag B together** is **4 times** the **mass of Bag C**.
Work out the **mass** of **Bag C**.

Show your working here.

kilograms

b) **Bag B** is the **heaviest bag**.
The **mean mass** of **Bag A and Bag C** is **17 kilograms**.
Work out the **mass** of **Bag B**.

Show your working here.

kilograms

(6 marks)

END OF PAPER