

END OF PRIMARY BENCHMARK

2021

SECOND SESSION

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

1. Work out.

a) $245 + 165 =$ _____ <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>	b) $472 - 231 =$ _____ <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>
c) $34 \times 62 =$ _____ <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>	d) $515 \div 5 =$ _____ <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto;"></div>

(4 marks)

2. Look at the matchstick pattern below.



Figure 1



Figure 2



Figure 3



Figure 4

There are 3 matchsticks in Figure 1 and 5 matchsticks in Figure 2.

a) How many matchsticks are there in Figure 5?

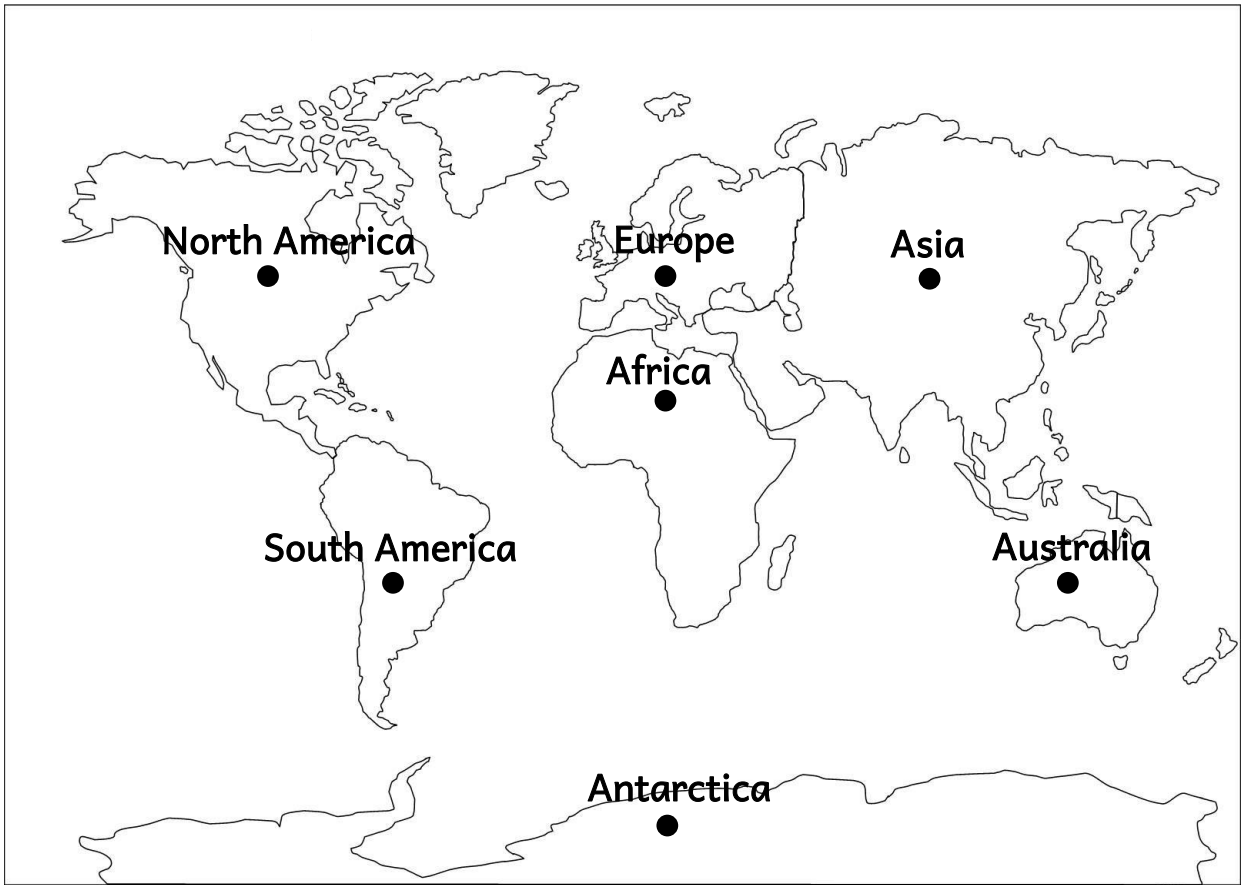
matchsticks

b) How many matchsticks are there in Figure 10?

matchsticks

(4 marks)

3. Look at the map of **The World** below.



a) Fill in with **compass directions**.

i. **Africa** is _____ of **Europe**.

ii. **Europe** is _____ of **South America**.

b) Fill in each blank with the **name of a continent**.

i. _____ is **West** of **Asia**.

ii. _____ is **South** of **Africa**.

(4 marks)

4. Tick (✓) the best estimate.

a) The mass of a new born baby.



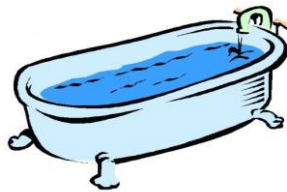
3 kg

30 g

30 kg

300 g

b) The full capacity of a bath.



2 l

22 ml

220 ml

220 l

c) The height of a classroom door.



2.5 m

25 cm

25 m

250 m

d) The area of a classroom floor.

5 cm²

5 km²

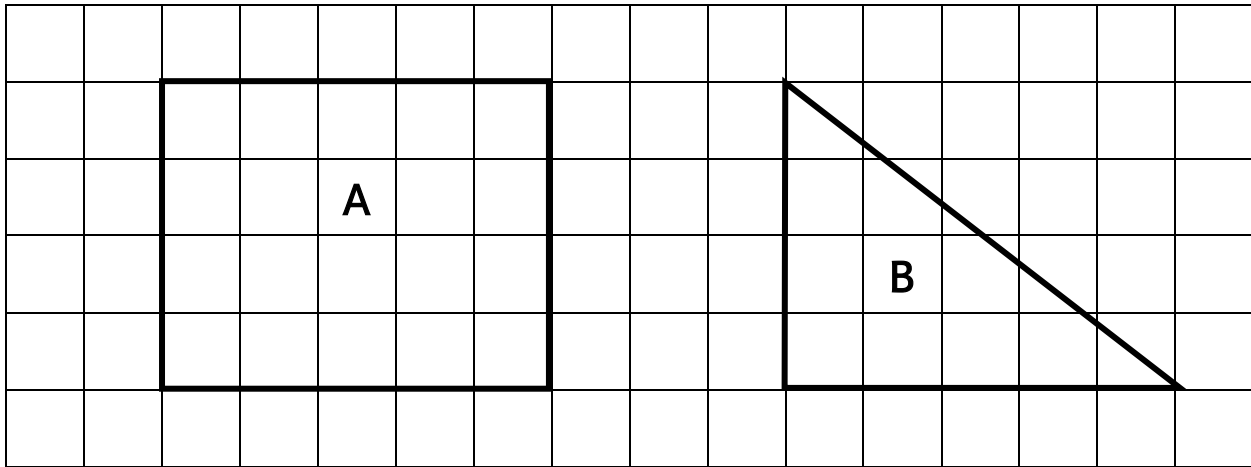
50 m²

500 cm²

(4 marks)

5a) Look at the shapes below.

Each small square on the grid has an area of 1 cm^2 .

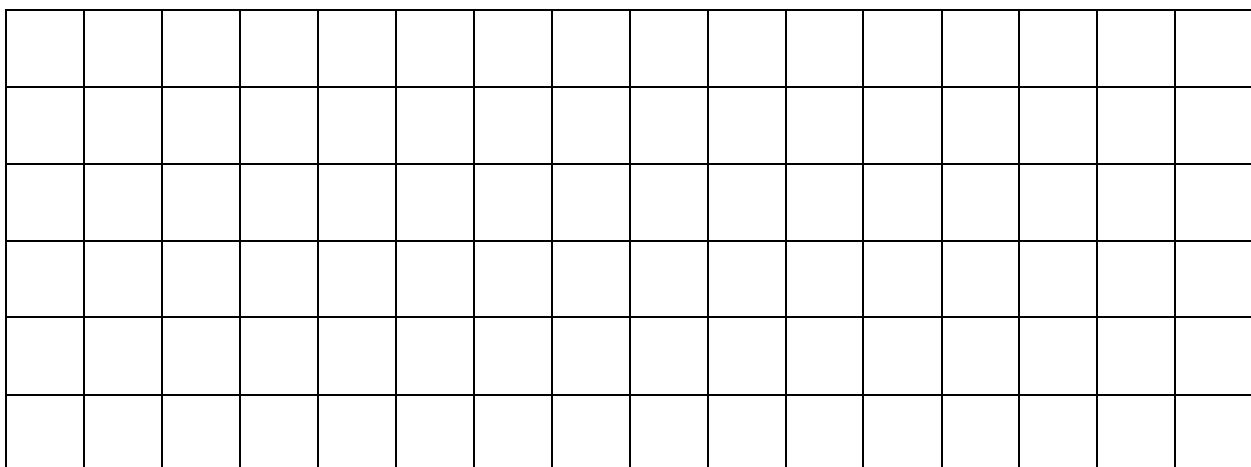


i. What is the **perimeter** of shape A?

ii. What is the **area** of shape B?

b) On the grid below, draw a **regular polygon** with an **area of 25 cm^2** and a **perimeter of 20 cm**.

Each small square on the grid has an area of 1 cm^2 .



(5 marks)

6. James gets the bus from Floriana at **13:22**.
He arrives at Bugibba at **14:20**.

a) How long is the journey from Floriana to Bugibba?

Show your
working here.

minutes

b) Draw **14:20** on the clock face.



c) Write **14:20** in 12-hour clock format.

:

(5 marks)

7. The table below shows the prices of different types of cinema ticket.



Ticket Type	Price	Ticket Type	Price
Adults	€8.30	Family	€19.00
Children 11 years and under	€5.00	2 adults and 2 children OR 1 adult and 3 children	

- a) What is the **difference** in price between a ticket for 1 adult and a ticket for 1 child?

€

- b) Some friends spend €33.20 on tickets.
Each of them is 15 years old.
How many friends are there altogether?

Show your working here.

friends in all

- c) There are 2 adults and 3 children in family Briffa.
They choose the **best offer** for them.
How much do they pay in all?



Show your working here.

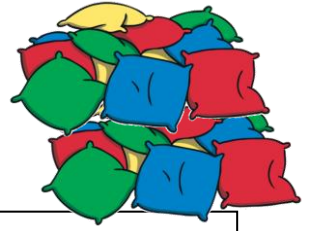
€

(5 marks)

8. Coach Tim packs **60 bean bags** to be used during training.

a) $\frac{1}{2}$ of the bean bags are **red**.

How many bean bags are **red**?



Show your
working here.

red bean bags

b) $\frac{15}{60}$ of all the bean bags are **green**.

$$\frac{15}{60} = \frac{\square}{4}$$

c) $\frac{1}{3}$ of the **remaining** bean bags are **yellow**.

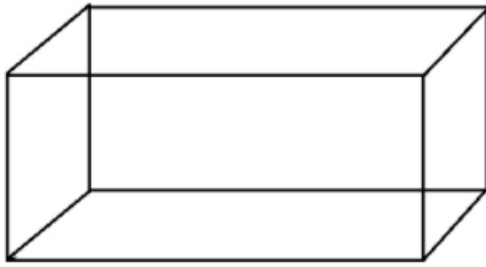
How many **yellow** bean bags are there?

Show your
working here.

yellow bean bags

(5 marks)

9a) Look at the shape below.



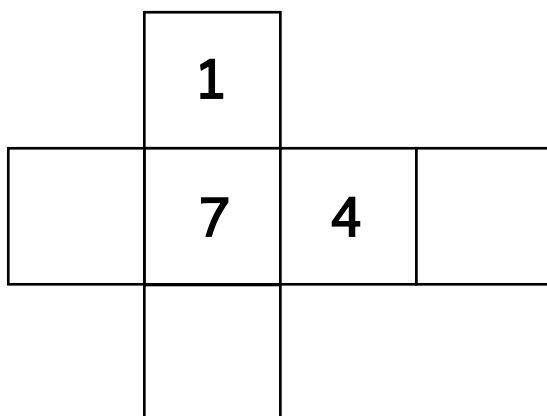
i. This is a _____.

ii. It has _____ faces.

b) Ann makes a cube from the net below.

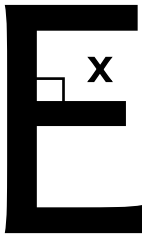
When the net is folded, the **numbers opposite each other add up to 10.**

Complete the numbers on the net.



(5 marks)

10a) What is the size of Angle X ?

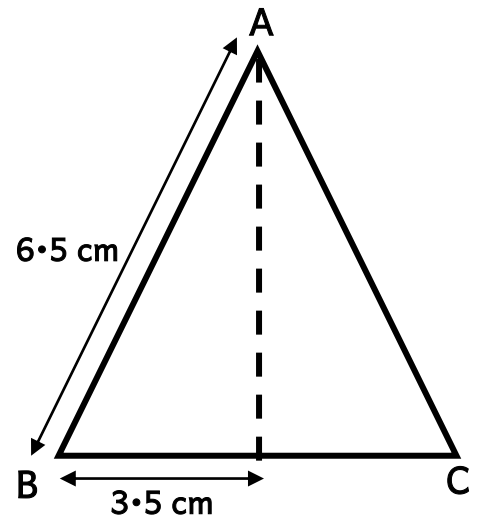


b) Triangle ABC has one line of symmetry.

i. The length of side AC is

 cm .

ii. The length of side BC is

 cm .

iii. Angle B is 72° .

Work out the size of Angle A.

Angle A is

 .

c) A triangle has 2 obtuse angles.

Is this true?

Tick (✓) the correct answer.

Always True

Sometimes True

Never True

(5 marks)

11. Andrew, Timothy and Lisa go to the school canteen.

Below there is the menu.



Tuna Ftira	€1
Ham and Cheese Sandwich	75c
Chicken Wrap	€1.50

Oat Bar	80c
Bottle of Water	50c

a) Andrew buys a ham and cheese sandwich and a bottle of water.
How much money does Andrew spend?

Show your working here.

€

b) Timothy buys a chicken wrap. He has €5.
How much change does he get?

Show your working here.

€

c) Lisa buys 3 different items and spends €2.05.
Which items does she buy?

(5 marks)

12. Martina is filling a bucket with water.
In **10 seconds** the bucket fills up to **0.72 l**.



- a) How much water is there in the bucket in **1 minute**?

Show your working here.

l

- b) More time passed and there is **5.48 l** in the bucket.
How much more water is needed to fill a **12 l** bucket?

Show your working here.

l

- c) Another **12 l** bucket full of water is hit and now has a crack.
It loses a **quarter** of its water.
How much water is **left** in this bucket?

Show your working here.

l

(5 marks)

13. Pamela is thinking of a 4-digit number.



- It contains four of the following digits: 1, 2, 3, 4, 5, 6 and 7.
- Pamela uses each digit only once.
- The **digit in the Thousands position is double the digit in the Hundreds position.**
- When **rounded to the nearest 1000** this number **becomes 6000.**
- This number is an **even number.**
- The number is **exactly divisible by 9** but **not divisible by 5.**

The number Pamela is thinking of is

or

.

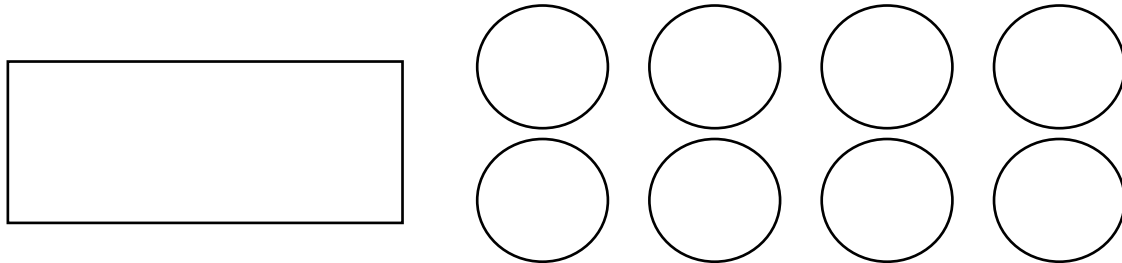
(6 marks)

14a) Kevin spends €8.55 on stationery.

He pays with 1 note and 8 coins.

Which note and coins does he use to pay?

Note: Not all 8 coins have the same value.



b) Kevin gets some pocket money every Sunday.

Work out:

i. the total number of Sundays in June 2021.

Note: This year the first day of June was a Tuesday.

Show your
working here.

Sundays

ii. the total number of Sundays in July 2021.

Show your
working here.

Sundays

(6 marks)

15. Look at the different fruit below.



2 apples
400 g



2 bananas
450 g



7 cherries
100 g



2 pears
350 g



5 strawberries
100 g

- a) Amy prepares different fruit salads.
Each of these salads has **apples and two other types of fruit**.
How many **different types** of fruit salad can Amy make?

Show your
working here.

different types

- b) Amy prepares **banana and cherry** smoothies.
She uses **2 bananas and 7 cherries** in **each smoothie**.
What is the **total mass of fruit** Amy uses for **6 of these smoothies**?



Note: Write your answer in **kilograms**.

Show your
working here.

kg

(6 marks)

16a) Jake conducts a survey to find out how many cousins each student in the Year 6 class at Sunshine School has.

The table below shows all the information he collects.

Number of cousins	0	1	2	3	4	More than 4
Number of students	1	2	18	2	1	0

Work out the mean number of cousins per student.

Show your working here.

cousins per student

b) Jake carries out the same survey with the Year 5 class.

There are 22 students in the Year 5 class.

The mean number of cousins per student is 1.

Complete the table below.

Number of cousins	0	1	2	3	4	More than 4
Number of students		1		1	1	0

Show your working here.

(6 marks)

END OF PAPER