

<b>CODE</b>	
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**Final Test**  
**2<sup>nd</sup> June 2021**

question no.	1	2	3	4	5	6	7	8	9	10
marks										

question no.	11	12	13	14	15	16	17	18	19	20
marks										

question no.	21	22	23
marks			

<b>SCORE OBTAINED</b>	
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<b>WORKING TIME</b>	
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## Section A

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Answer ALL Questions.

Tick (✓) the correct answer in each question.

Each question carries 2 marks.

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1. Which fraction is **larger than  $\frac{1}{2}$  but smaller than  $\frac{3}{4}$** ?

a.  $\frac{2}{3}$

b.  $\frac{5}{8}$

c.  $\frac{1}{5}$

d.  $\frac{7}{8}$

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2. How many **digits** are used to write down the numbers from **2 to 122** (both numbers included)?

a. 252 digits

b. 254 digits

c. 255 digits

d. 257 digits

3. Which one of the following multiplication sentences has the **greatest product**?

a.  $15 \times 3 \times 25$

b.  $15 \times 4 \times 24$

c.  $15 \times 2 \times 26$

d.  $15 \times 4 \times 26$

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4. How many **minutes** should be **subtracted** from **360 seconds** to get **1 minute**?

a. 5 minutes

b. 60 minutes

c. 300 minutes

d. 359 minutes

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5. Karl, Mark, Amy and Jane are friends.

When they meet today:

Karl greets **3** of his friends with an elbow bump.

Mark greets **2** of his friends with an elbow bump.

Amy greets **1** of her friends with an elbow bump.

How many **friends** greet **Jane** with an elbow bump?



a. 0

b. 1

c. 2

d. 3

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6. The following figure shows a calendar page for the month of June 2018.

### June 2018

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

1<sup>st</sup> June 2018 was a **Friday**.

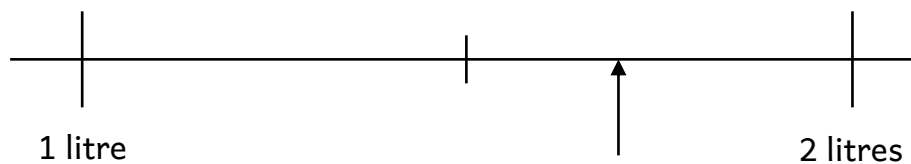
1<sup>st</sup> June 2019 was a **Saturday**.

1<sup>st</sup> June 2020 was a **Monday**, because 2020 was a **leap year**.

In which year will 1<sup>st</sup> June fall on a **Friday** again?

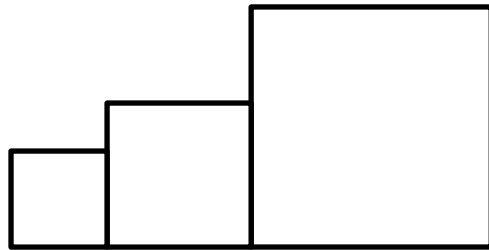
- a. 2024
- b. 2025
- c. 2029
- d. 2030

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7. What capacity is the **arrow** pointing to?



- a. 1.07 litres
- b.  $1\frac{7}{100}$  litres
- c. 1.17 litres
- d. 1.7 litres

8. Three squares with **perimeter 8 cm, 12 cm and 20 cm** respectively are put next to each other to form a new figure as shown below.  
What is the **area** of the new figure?



The figure is not drawn to scale and is not of actual size.

- a.  $30 \text{ cm}^2$
- b.  $38 \text{ cm}^2$
- c.  $40 \text{ cm}^2$
- d.  $80 \text{ cm}^2$
- 

9.  $\frac{1}{5}$  of the children in a sports club play tennis.

$\frac{1}{4}$  of the children who play tennis, also play football.

There are **8 children** who play both tennis and football.

How many **children** attend the sports club?

- a. 32 children
- b. 128 children
- c. 160 children
- d. 200 children
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10. In **8 years time**, Claire will be **three times** as old as her current age.

In how many **years** will she be 20 years old?

a. 4 years

b. 8 years

c. 12 years

d. 16 years

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11. 3 books, 2 pens and 1 pencil cost **€13**.

2 books, 3 pens and 4 pencils cost **€12**.

What is the **cost** of 3 books, 3 pens and 3 pencils?

a. €10

b. €15

c. €20

d. €25

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12. A **200-digit number** is arranged as follows:

**12361236.....1236**

What is the **units** digit of the **product** of all digits of this number?

a. 2

b. 6

c. 8

d. 9

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13. A polar bear weighs **three times** more than a baby elephant.

Together they weigh **700 kilograms**.

What is the **mass** of the polar bear?

a. 525 kilograms

b. 515 kilograms

c. 233 kilograms

d. 175 kilograms

14. There are **three** boxes in a room.

There is a car in **only one** box.

On each box there is a statement.

Box 1: The car is in this box.

Box 2: The car is not in this box.

Box 3: The car is not in box 1.

In **which** box is the car found, if **only one statement is true**?

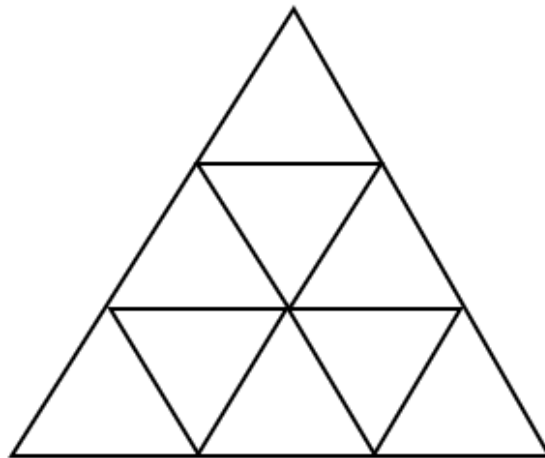
a. Box 1

b. Box 2

c. Box 3

d. We cannot tell.

15. What is the **total** number of **triangles** in this diagram?



- a. 9 triangles
  - b. 10 triangles
  - c. 12 triangles
  - d. 13 triangles
- 

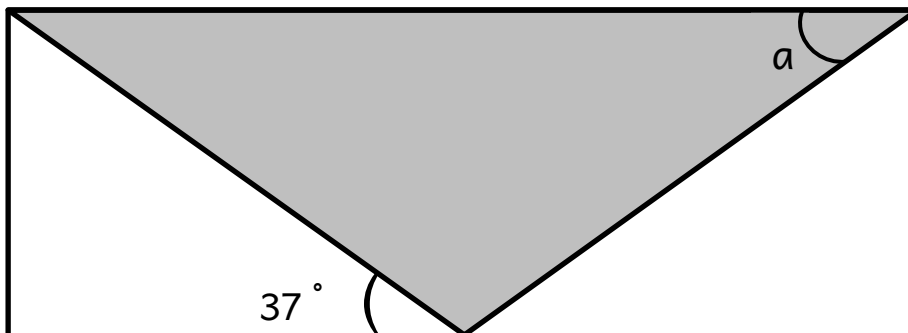
16. Which of the following is equivalent to **5 kilometres 4 metres**?

- a. 5.4 kilometres
- b. 5.04 kilometres
- c. 5004 metres
- d. 5040 metres



17. The diagram below shows a **shaded isosceles triangle** inside a **rectangle**.

Calculate the size of **angle a**?

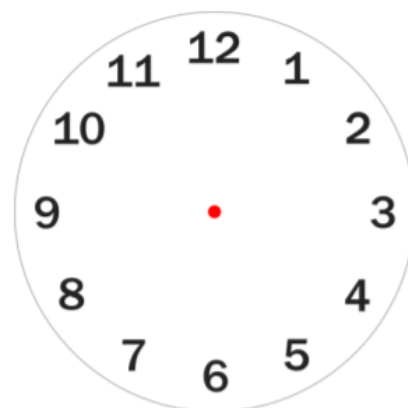


The figure is not drawn to scale and is not of actual size.

- a.  $37^\circ$
- b.  $76^\circ$
- c.  $106^\circ$
- d.  $143^\circ$

18. At what **time** is the angle between the minute hand and the hour hand of a clock equal to  $60^\circ$ ?

- a. 2 o'clock
- b. 9 o'clock
- c. 6:30
- d. 11:25



19. A **pattern** is formed using triangles, as shown in the four figures below.

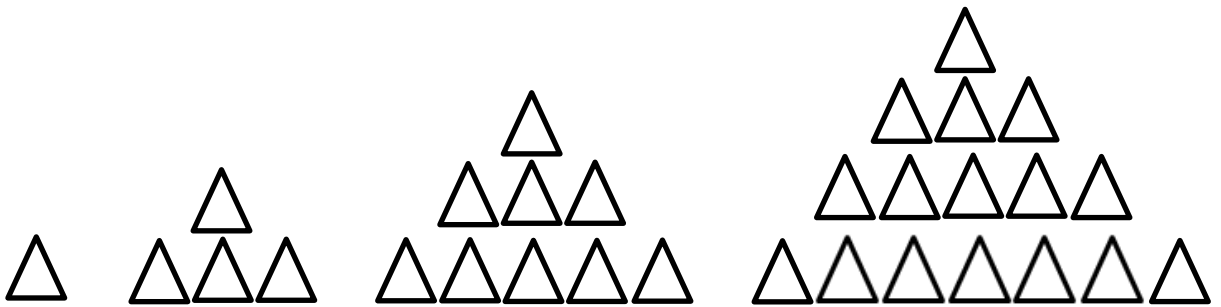


Fig. 1

Fig. 2

Fig. 3

Fig. 4

How many **triangles** are there in **Figure 15**?

- a. 215 triangles
- b. 220 triangles
- c. 225 triangles
- d. None of the above

## Section B

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Answer ALL Questions.

Show your working.

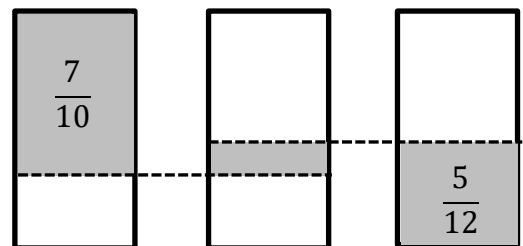
Each question carries 3 marks.

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20. The **mass** of an aquarium tank, when **full** of water is **371 kilograms**.  
When **half full** of water, the tank's mass is the same as **4 empty tanks**.  
What is the mass of an **empty tank**?

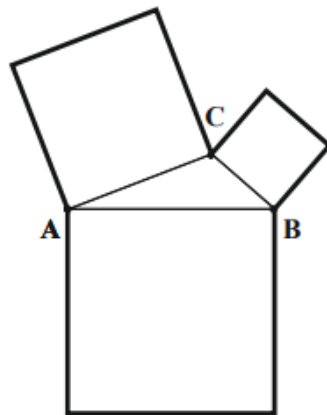
kilograms

21. The adjacent diagram shows three **identical** rectangles.  
Part of each rectangle is shaded.  
What fraction of the **middle rectangle** is shaded?



22. Tommy thinks of two numbers with a **difference of 35**.  
**Half** of one number is equal to **three times** the other number.  
What is the **sum** of the two numbers Tommy thinks of?

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23. The **perimeter** of triangle ABC is **21 centimetres**.  
**Three squares** have been drawn externally on the sides of the triangle, forming the **new figure** shown below.  
Find the **perimeter** of the **new figure** in **centimetres**.



The figure is not drawn to scale and is not of actual size.

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**End of test**