



Qualifying Test

27th November 2019

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			

SCORE OBTAINED	
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Section A

Tick (✓) the correct answer in each question.

Each question carries 2 points.

1. Which number is 38 less than 4000?

a. 200

b. 3962

c. 3968

d. 3972

2. Add all the even numbers from 1 to 50.

Then, add all the odd numbers from 1 to 50.

Finally, subtract the total of the odd numbers from the total of the even numbers.

What is your answer?

a. 24

b. 25

c. 26

d. 27

3. How many odd 2-digit numbers are exactly divisible by 9?

a. 4

b. 5

c. 9

d. 10

4. Tick (✓) the statement which is **always true**.

a. Numbers with more digits are always greater in value.

b. If you double the area of a rectangle, the perimeter doubles in length.

c. If you multiply 12 by a number, the answer will be greater than 12.

d. If you add any 3 consecutive numbers the total is always divisible by 3.

Note: Consecutive number are numbers that follow each other.

5. $4 \frac{1}{2} = \frac{\square}{6}$

a. 3

b. 9

c. 24

d. 27

6. $8 \times 16 = (12 \times 16) - 16 - (16 \times \underline{\square})$

What is the value of ?

a. 2

b. 3

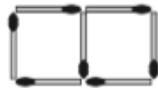
c. 4

d. 5

7. Study the matchsticks' pattern below carefully.
How many matchsticks are needed for **Shape 50**?



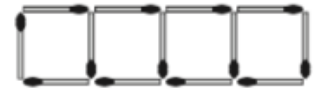
Shape 1



Shape 2



Shape 3



Shape 4

- a. 200
- b. 151
- c. 103
- d. 100

8. Two numbers in the grid below can be swapped (change position) to create a Magic Square.

In a Magic Square, each row, each column and both diagonals add up to the same total.

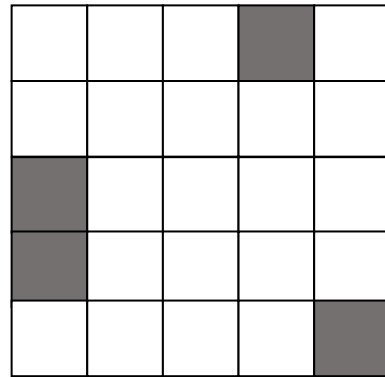
Which two numbers shall be swapped to turn the grid below into a Magic Square?

8	11	14	1
13	2	16	12
3	7	9	6
10	5	4	15

- a. 7 and 11
- b. 7 and 12
- c. 7 and 15
- d. 7 and 16

9. What is the **minimum number of squares** that we need to shade so that the figure below has **one line of symmetry**?

- a. 1
- b. 2
- c. 3
- d. 4



10. From *Angelica's Farm* oranges are bought at **€1.38** per 500 grams. George, Ian and Liam bought **2 kilograms** of oranges altogether. They did not share the cost equally. George paid half as much as Ian. Liam paid three times as much as George. How much did **George** pay?

- a. €1.84
- b. €0.92
- c. €0.46
- d. €0.23



11. Which of the following is the **same** as **7.086 km**?

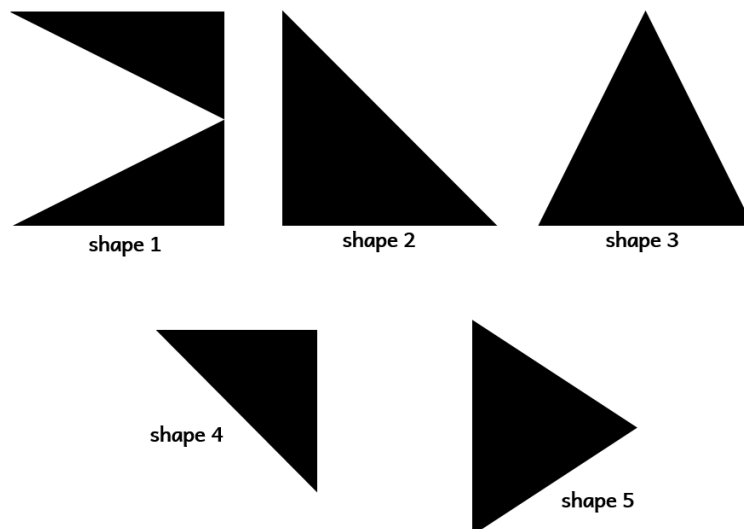
- a. 786 m
- b. 7 km 860 m
- c. 70.86 m
- d. None of the above.

12. Tara spends **5 hours 30 minutes** at school every day.
 In October 2019 Tara went to school every day, but not on
 Saturdays and Sundays.
 How many hours did Tara spend at school in October?

- a. $121 \cdot 9$ hours
- b. $126 \cdot 5$ hours
- c. $164 \cdot 3$ hours
- d. $170 \cdot 5$ hours

October 2019						
SUN	MON	TUE	WED	THU	FRI	SAT
		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	31		

13. Which **two shapes** can be put together to make up a square?



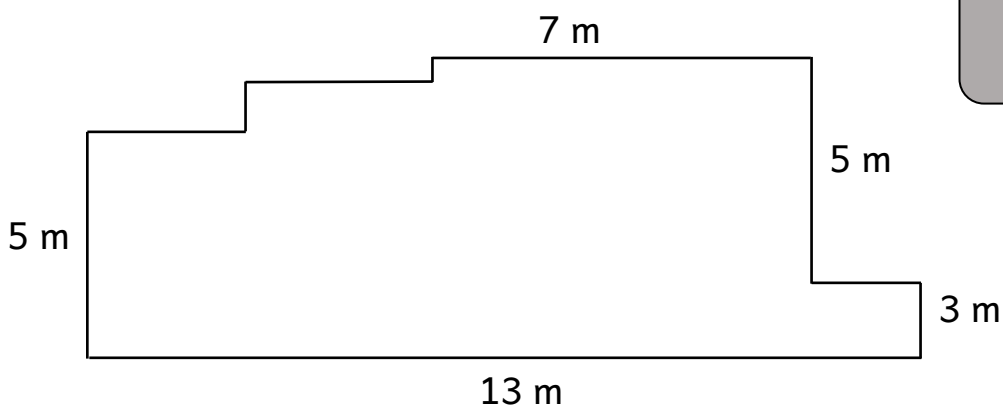
- a. Shapes 1 and 2
- b. Shapes 1 and 3
- c. Shapes 1 and 5
- d. Shapes 2 and 4

14. When **full** of water, the mass of **a container** is **4340 g**.
When **half full**, the **same container** weighs as much as **16 empty containers**.

What is the **mass of the container** when it is **empty**?

- a. 135 g
- b. 140 g
- c. 144 g
- d. 524 g

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15. The diagram below represents a small garden at Alicia's house.



Which of the following is the **perimeter** of the garden?

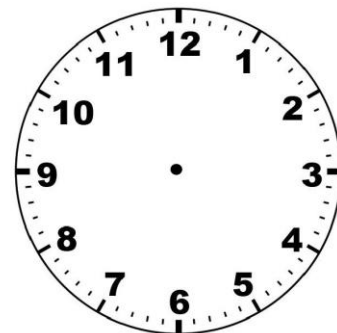
- a. 33 m
- b. 42 m
- c. 46 m
- d. We cannot tell.

16. At Sunshine School they are celebrating 4 birthdays today.
Amy and Jana turned 13 today.
Timmy turned 15 today and Ms Fiona turned 43.
In which year will the **total of their ages be 100?**

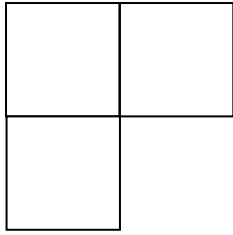
- a. 2023
- b. 2025
- c. 2039
- d. We cannot tell.

17. What is the **smaller angle between the minute hand and the hour hand** when it is 5 o'clock?

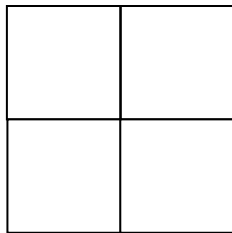
- a. 135°
- b. 150°
- c. 170°
- d. 210°



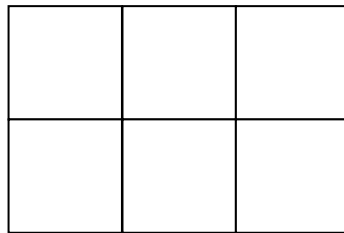
18. The figure below shows **one quarter** of a chocolate bar.



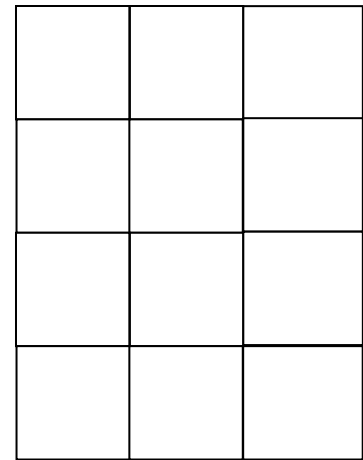
Which of the figures below shows the **whole** chocolate bar?



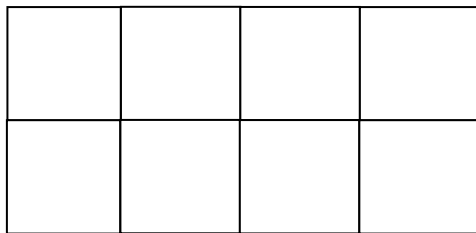
chocolate 1



chocolate 2



chocolate 3



chocolate 4

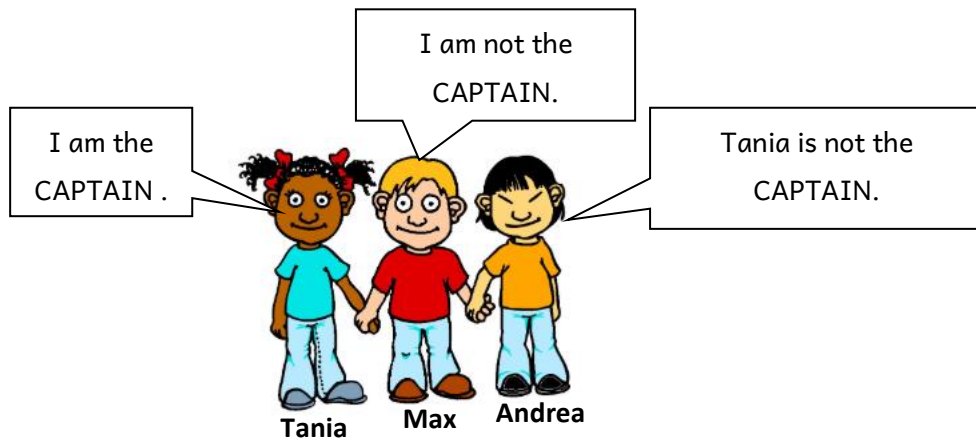
a. chocolate 1

b. chocolate 2

c. chocolate 3

d. chocolate 4

19. Tania, Max and Andrea play in the school's basketball team. In their team there is only one **CAPTAIN**. Read carefully what Tania, Max and Andrea are saying. Only one of them is saying the truth.



Who is the **CAPTAIN**?

- a. Tania
- b. Max
- c. Andrea
- d. None of them.

Section B

Show your working.

Each question carries 3 points.

20. Four of the five fractions below add up to 1.
Circle the four fractions which add up to 1.

$$\frac{1}{2}$$

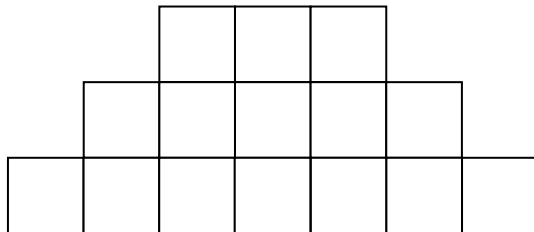
$$\frac{1}{3}$$

$$\frac{1}{4}$$

$$\frac{1}{6}$$

$$\frac{1}{12}$$

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21. How many **squares** are there in the diagram below?



squares

22. Eight (8) teams are participating in a school football tournament. Every team is playing one match against each of the other teams. Teams get three (3) points for every match they win.

How many matches are played in all in this football tournament?



matches

23. Paula likes exploring numbers.
She writes the numbers from 1 to 25 in order to make this multi-digit number.

1234567891011121314..... 232425

Then she removes **38 digits** from this number to make the **greatest possible number without changing the position of any of the digits.**

What is that number?

The number is _____

End of test