

Question 1

Complete the sequences.

- A.

	6	12		24
--	---	----	--	----
- B.

72			54	48
----	--	--	----	----
- C.

30	36	42		
----	----	----	--	--

What pattern do you notice in the sequences?

Question 2

Lucas has completed this calculation.

$$4,129 - 2,318 = 1,811$$

Which of the calculations would help him to check his answer?

- A. $2,318 - 1,811$ B. $4,129 + 1,811$
- C. $2,318 + 1,811$ D. $2,318 - 4,129$

Question 3

Ruby buys the following items.



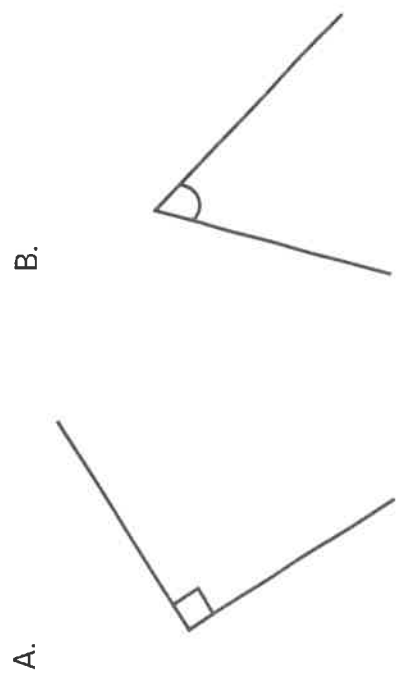
£1.60

£2.75

- A. How much did Ruby spend altogether?
- B. How much change would Ruby receive if she paid with a £10 note?

Question 4

Which angle is less than a right angle?

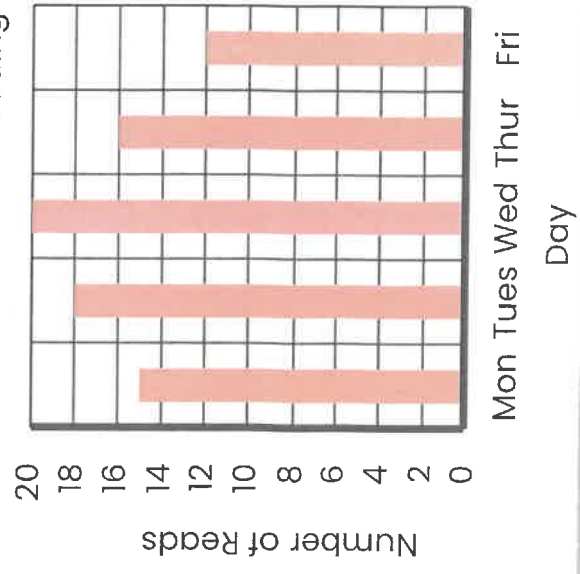


Question 5

The bar chart shows how many children read at home each day in Oak Class.

- A. How many more children read on Thursday than Friday?
- B. On which day did 15 children read at home?

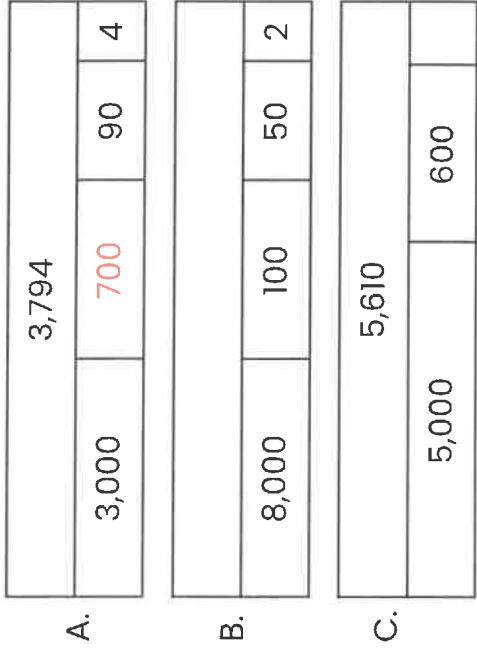
Oak Class Home Reading



Rubies

Question 1

Complete the bar models.



Question 2

Star is making bracelets.

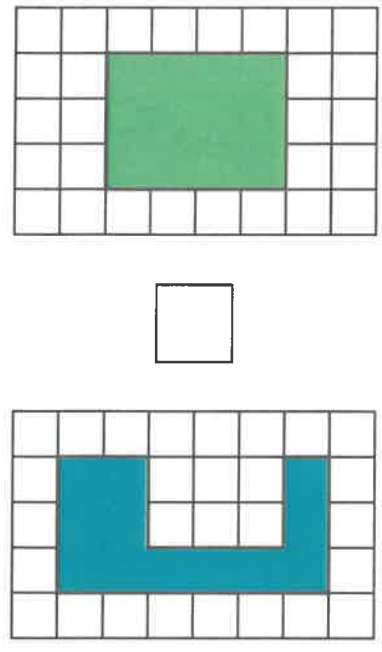
Each bracelet has 3 pink heart beads and 2 yellow heart beads.



How many heart beads does Star use to make six bracelets?

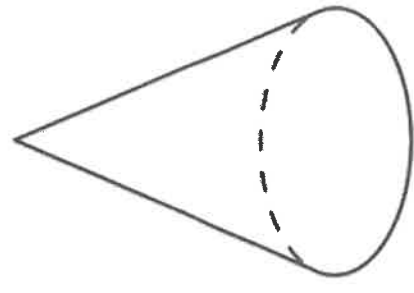
Question 3

Compare the area of the shapes using $<$, $>$ or $=$.



Question 4

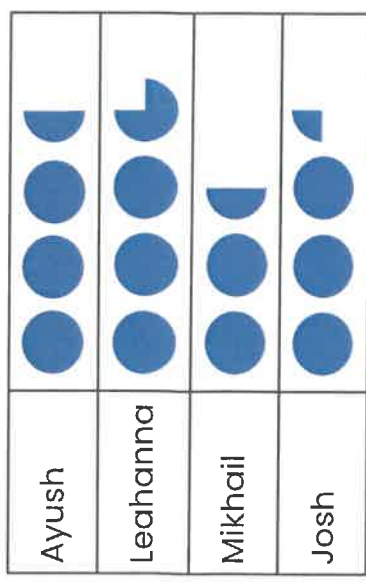
Which of the statements below does not describe the 3D shape pictured?



- A. It has more vertices than a sphere.
- B. It has a curved surface.
- C. It has 2 edges.
- D. It is a cone.

Question 5

This pictogram shows how many trading cards some children have collected.



= 4 trading cards

- A. Who collected the most cards?
- B. How many cards, in total, do Josh and Leahanna have?
- C. How many more cards does Ayush have than Mikhail?

Question 1

A teacher has a jar with 24 marbles.

She takes $\frac{3}{4}$ of the marbles out to use in a maths lesson.



How many marbles are left in the jar?

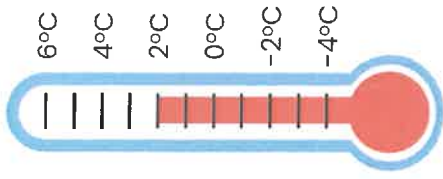
Question 2

Compare the numbers using < or >.

- A. 17.36 71.63
- B. 5.91 5.19
- C. 403.5 430.5
- D. 0.05 0.50
- E. 12.11 11.12

Question 3

What is 5°C less than the temperature shown on the thermometer?



Question 4

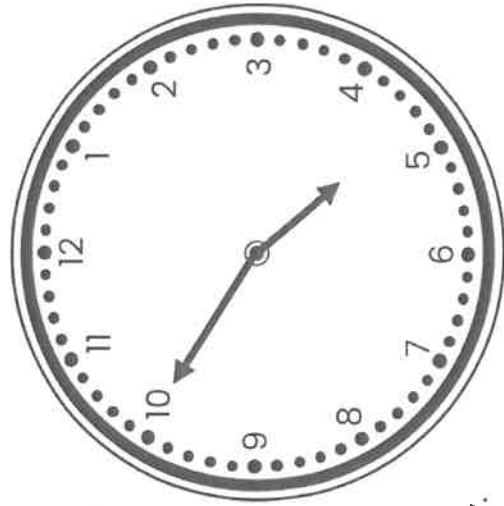
Alisha must set the time on the new microwave which has a 24-hour display.

She has waited until the afternoon and checks the clock in the kitchen.

Write the time as it would appear on the 24-hour display.

Question 5

Which of the letters have both perpendicular and parallel lines?



T N H K

Opals

Question 1

Write these numbers in words:

- A. 500,675
- B. 933,808

Write these numbers in digits:

- C. sixty-six thousand, four hundred and eighty-three
- D. nine hundred and seventy-four thousand and twelve

Question 2

Here are some scores in a video game.

Round 1	
Jonny	705
Ned	558
Jaz	517

- A. In round 2, Ned's score decreased by 19 points and Jaz improved her score by 20 points. Did Ned or Jaz get a higher score?
- B. Jonny's round 2 score was 59 points away from 917. What is the total of his scores from Round 1 and 2?

Question 3

Rod is buying a new tablecloth for his kitchen table.



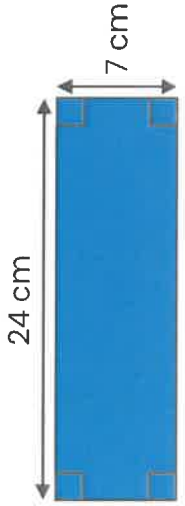
His table is 2 metres long. A tablecloth he found online is 90 inches long.

By how many cm will this tablecloth hang off the length of the table?

10 inches \approx 25 cm

Question 4

Mo is experimenting with tile designs using this tile.



A. He uses four tiles to make this diamond pattern. Is the inside white shape regular or irregular?



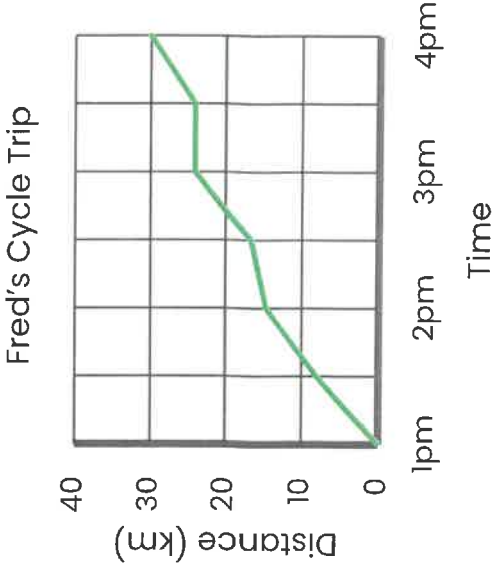
B. He places three tiles side by side. Is the combined shape regular or irregular?



Question 5

Here is a time graph showing Fred's 3 hour cycle trip.

- A. When did Fred begin to take a rest?
- B. How long did his rest last?
- C. At what time do you think Fred started to go up the steepest hill?



Sapphires

Question 1

Which of these three numbers add together to make a prime number?

- 8
- 9
- 15
- 2

Question 2

This recipe makes a cake for 8 people.

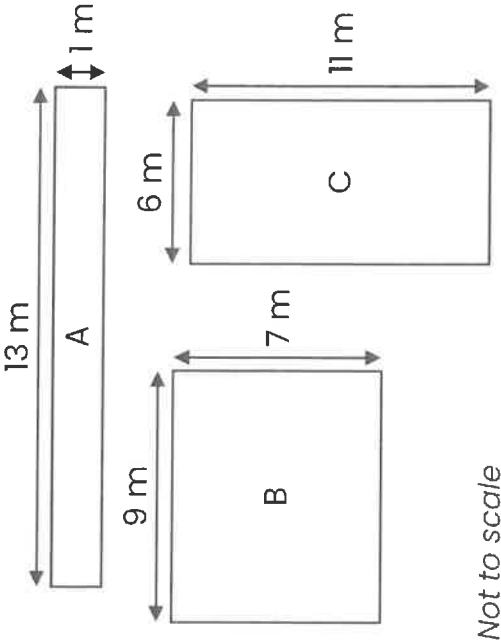
- 150 g sugar
- 200 g flour
- 4 eggs
- 2 thirds of a litres of milk

A. How much sugar is needed for a cake for 4 people?

B. How many eggs will be needed for a cake for 12 people?

Question 3

Which rectangle has the greatest area?

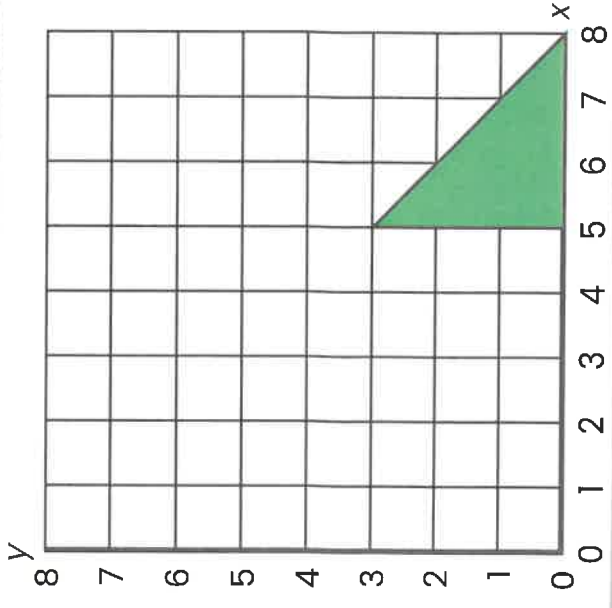


Not to scale

Question 4

Star is going to translate this triangle 3 squares left and 4 squares up.

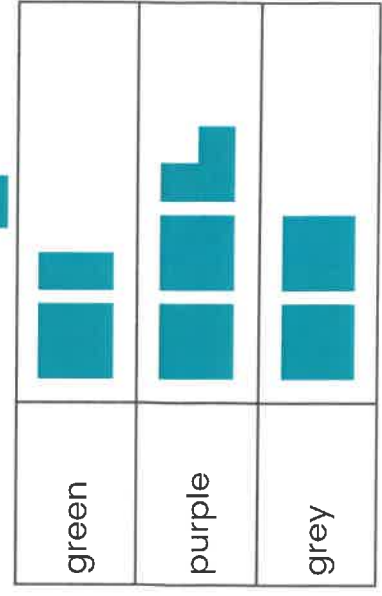
What are the new coordinates of this triangle?



Question 5

Here is a pictogram showing the results of a vote to decide the colour of a new school uniform.

= 8 votes



A. How many children voted for purple?

B. What is the minimum number of votes needed for grey to have won?

C. How many children voted altogether?

Ame thys JB

Question 1

Mrs Smith is cutting up fruit into 4 bowls for break time. Each bowl contains:



- 1 and a half oranges
- $\frac{7}{8}$ of an apple
- $\frac{3}{4}$ of a banana

How many of each of the following fruit did Mrs Smith use in total?

- A. oranges
- B. apples
- C. bananas

Question 2

Three children are checking their battery charge on their tablets.

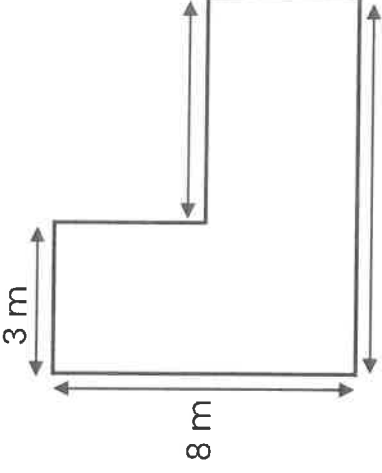


- Mia has used $\frac{3}{4}$.
- Jack has 0.4 left.
- Nina has 35% left.

Who has the most battery life left on their device?

Question 3

The perimeter of this shape is 36 m. Find the horizontal missing lengths.

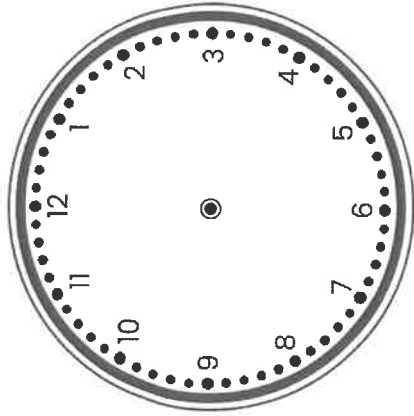


Not to scale

Question 4

These digital times are being drawn on an analogue clock. What number will the minute hand point in each example?

- A. 13:15
- B. 18:55
- C. 16:35



Question 5

Label each angle as acute, obtuse or reflex.

