Cambridge Assessment International Education

Cambridge Primary Sample Test

For use with curriculum published in September 2020

Mathematics Paper 2

Stage 5

45 minutes

Name .....

Additional materials: Calculator
Set square
Tracing paper (optional)

INSTRUCTIONS

- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.
- You may use a calculator.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [ ].

1 Write the number that is one hundred times greater than 42

.....

[1]

2 Here is a list of symbols.

< = >

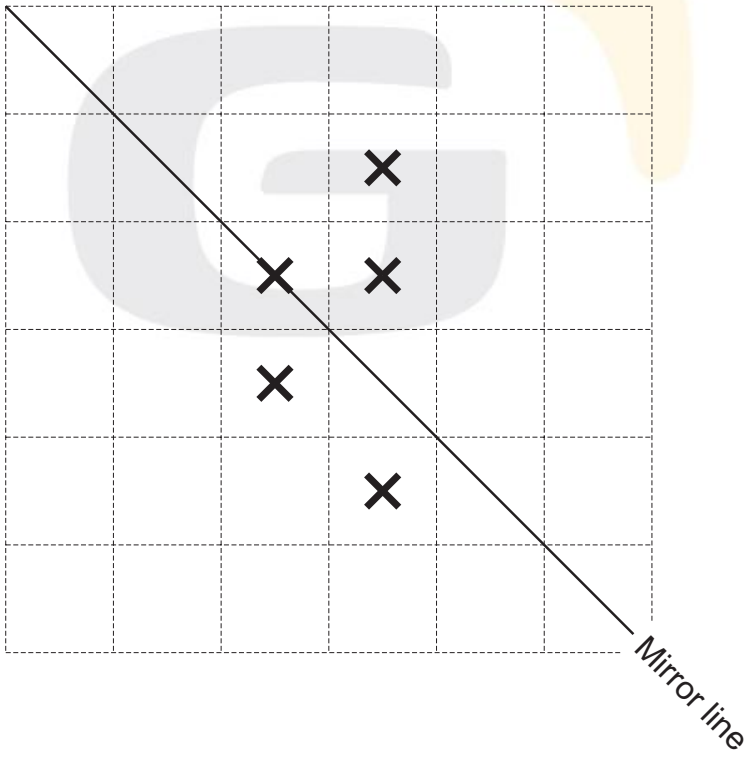
Write **one** of the symbols in each box to complete each statement.

2.34 + 0.43 ☐ 1.55 + 1.11

5.4 – 0.9 ☐ 6.4 – 1.9

[1]

3 Draw a cross in **two** more squares to complete this symmetrical pattern.



[1]

4 Calculate $\frac{1}{3} \div 3$

..... [1]

5 This is a sorting diagram for birds.

	Maximum flying height 10 kilometres or more	**Maximum flying height 10 kilometres or less**
Endangered		
Not endangered		

Here is information about two birds.

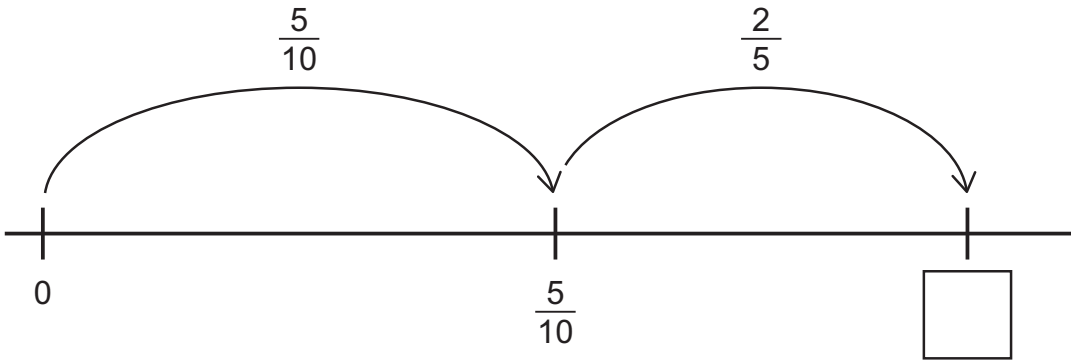
Write the **name** of each bird in the correct place on the sorting diagram.

Name: Alpine chough
Maximum flying height: 8077 metres
Endangered

Name: Common crane
Maximum flying height: 10 058 metres
Not endangered

[1]

6 Write the missing fraction in the box.



[1]

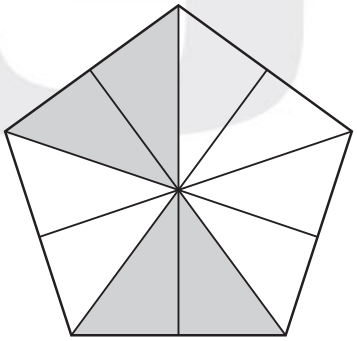
7 Draw a ring around **all** the numbers that are multiples of 4

450 540 504 405 445 544

[1]

8 Here is a regular pentagon.

It is divided into ten equal parts.

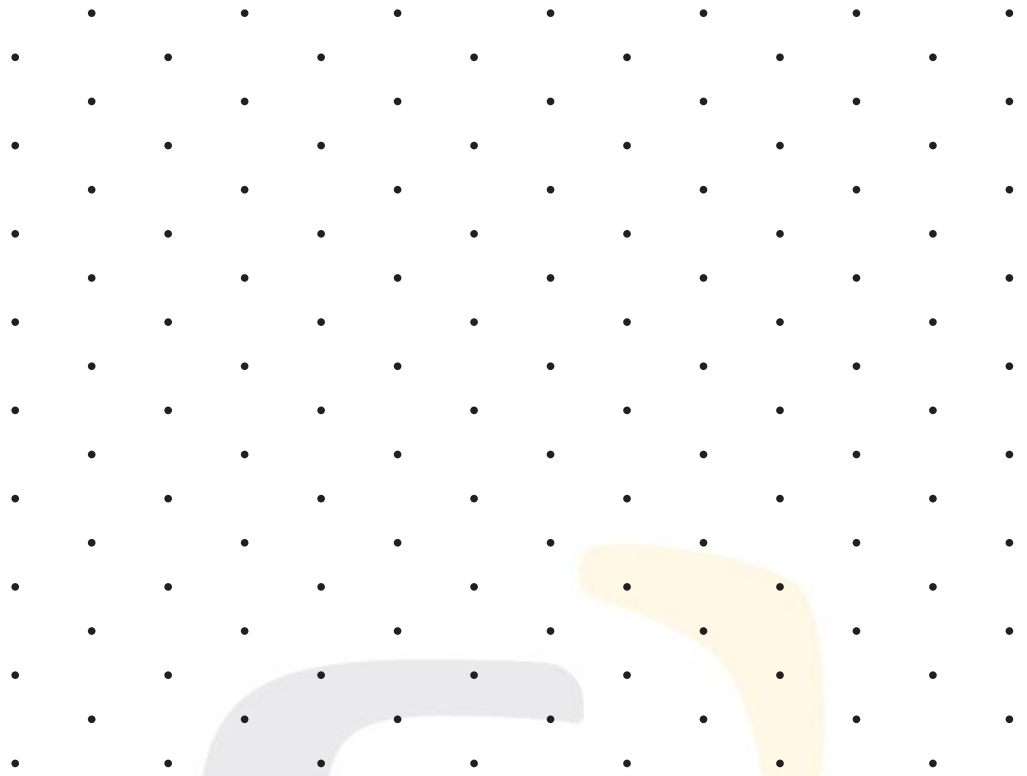


What percentage of the pentagon is shaded?

..... % [1]

9 Here is an isometric grid.

Join dots to draw a cube.



[1]

10 Lily uses these number cards to make 3-digit numbers.

3	4	5	6

The nearest multiple of 10 to all Lily's numbers is 350

Write **all** the possible 3-digit numbers Lily makes.

.....

[1]

11 Draw a line to match each event to the time it is most likely to take.

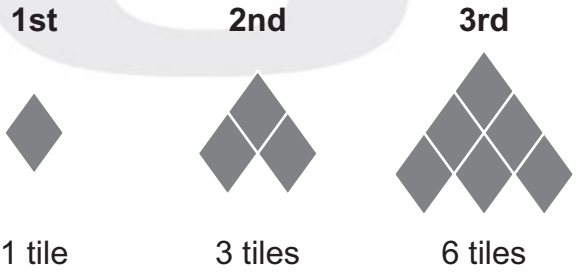
One has been done for you.

Write your name	0.5 seconds
Clap your hands once	5 seconds
Count to 50	50 seconds
Blow out **one** candle	

[1]

12 Safia builds shapes with tiles.

The number of tiles in each shape makes a number sequence.



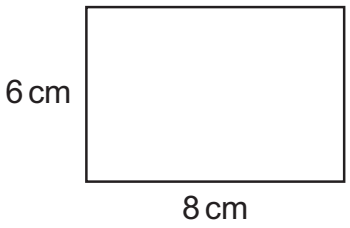
(a) How many tiles does Safia **add** to the 3rd shape to make the 4th shape?

..... tiles [1]

(b) How many tiles are in the 7th shape?

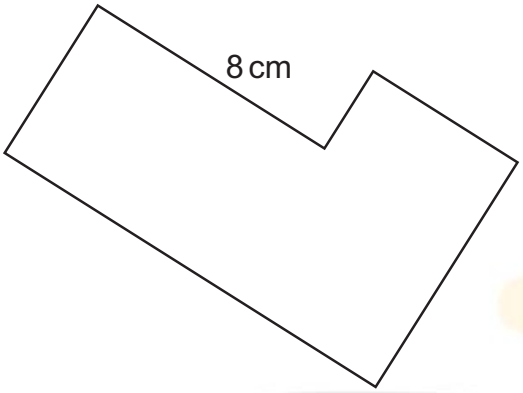
..... tiles [1]

13 Here is a rectangle.



Not drawn to scale

Angelique uses **two** of these rectangles to make a hexagon.



Not drawn to scale

(a) What is the area of the hexagon?

..... cm^2 [1]

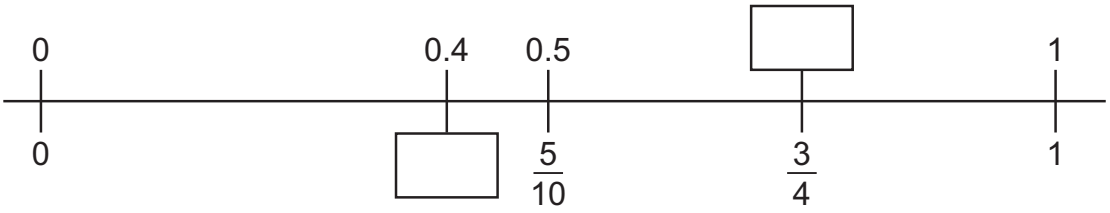
(b) What is the perimeter of the hexagon?

Show your working.

..... cm [2]

14 Here is a number line.

It shows decimals and fractions.



Write the correct number in each box.

[2]

15 Chen's hens lay 365 eggs.
26 eggs are broken.

Chen packs the rest of the eggs into boxes of 6

How many boxes does Chen completely **fill**?

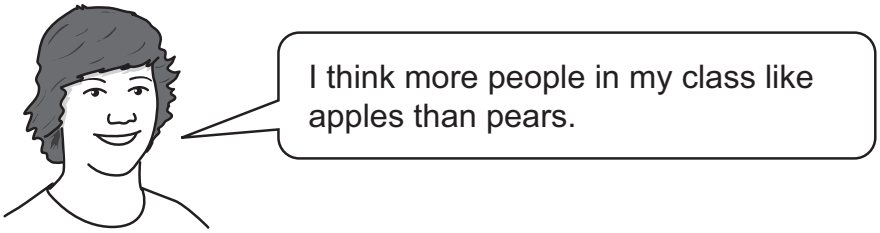
..... boxes [1]

16 Write one digit in each box to make this correct.

□ □ □ × □ = 1745

[1]

17 Oliver says,



Oliver collects some data to find out.

Tick (✓) **all** the information Oliver **must** collect to find out if he is correct.

The number of people in his class who like apples. ☐

The names of the people in his class. ☐

The number of people in his school who like pears. ☐

The number of people in his class who like pears. ☐

The number of people in his class who like oranges. ☐

[1]

18 Look at this set of numbers.

Complete the statements.

The numbers in the set are **all** divisible by 1, ... and .....

The numbers in the set that are divisible by 50 are .....

[2]

19 Here is a set of digit cards.

0	1	2	3	4	5	6	7	8	9

Hassan puts them in a bag and picks one card.

Tick (✓) the statement that is **least likely**.

Hassan picks an odd number. ☐

Hassan picks a number less than 5 ☐

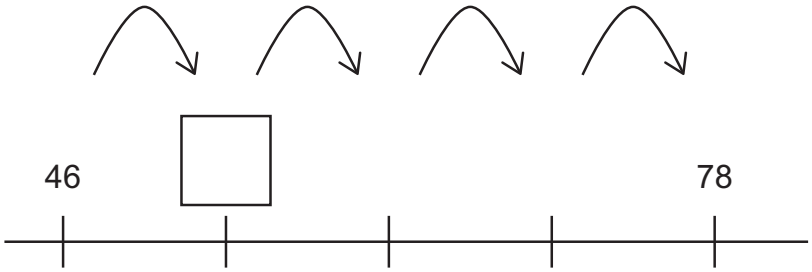
Hassan picks number 9 ☐

Hassan picks a number between 4 and 7 ☐

[1]

20 Here is part of a sequence on a number line.

The sequence increases by the same number each time.

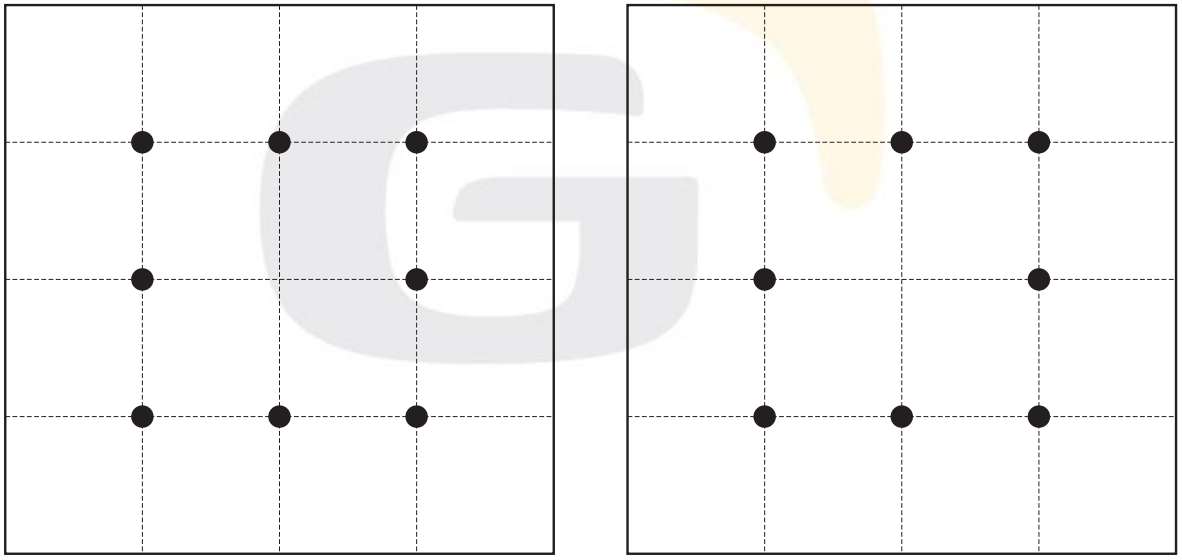


Write the correct number in the box.

[1]

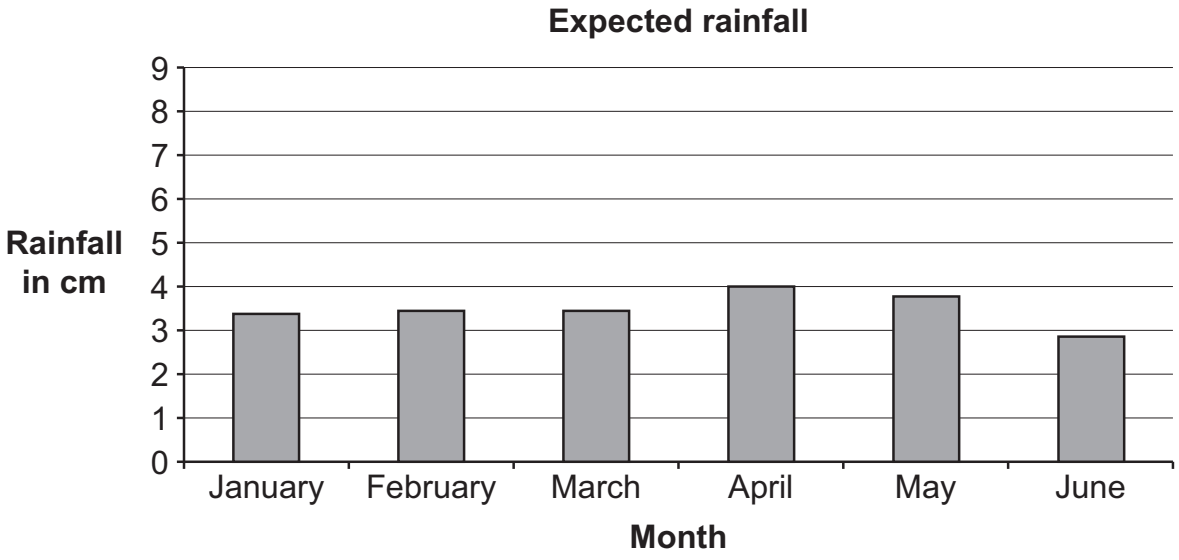
21 Here are some dots on two grids of squares.

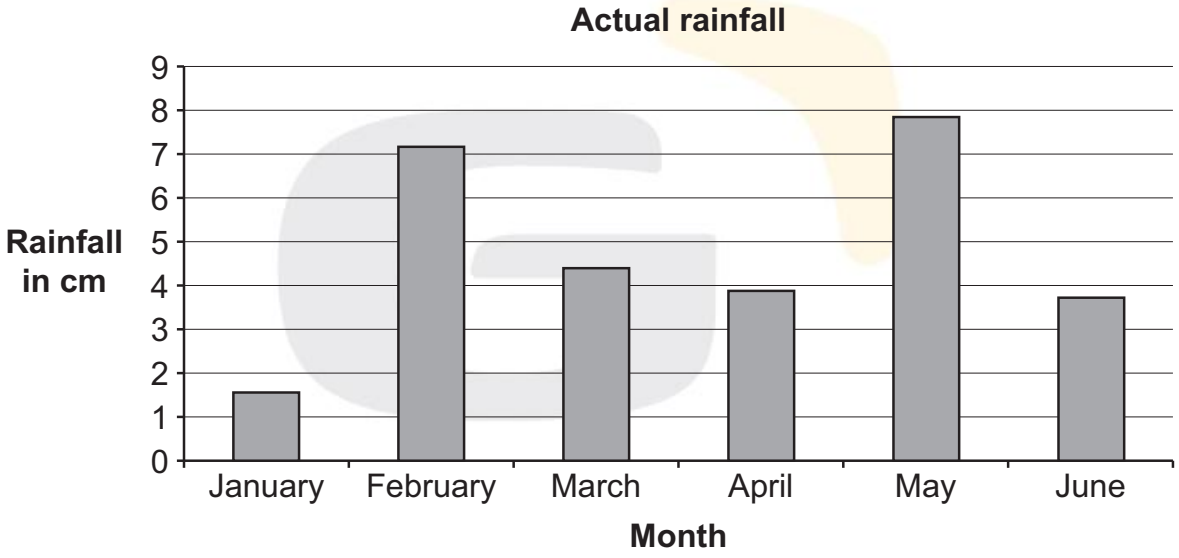
Join dots to make a **different** isosceles triangle on each grid.



[2]

22 Here is some information about rainfall in a town.





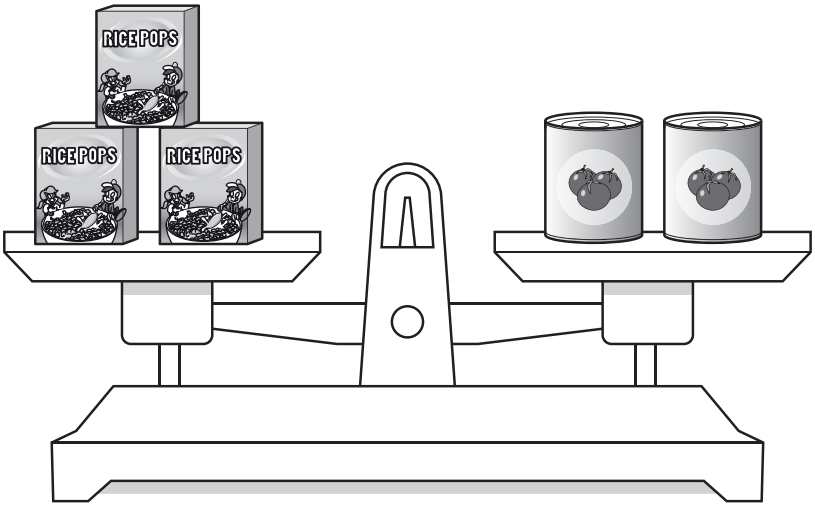
(a) In how many months was the actual rainfall greater than the expected rainfall?

..... months [1]

(b) In which month was the actual rainfall closest to the expected rainfall?

..... [1]

23 Three identical boxes balance with two identical cans.



Each item has a mass between 300 and 500 grams.

(a) Write possible masses for the boxes and cans.

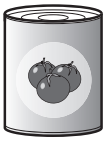
.....g

.....g

[1]

(b) Write **different** possible masses for the boxes and cans.

.....g



.....g

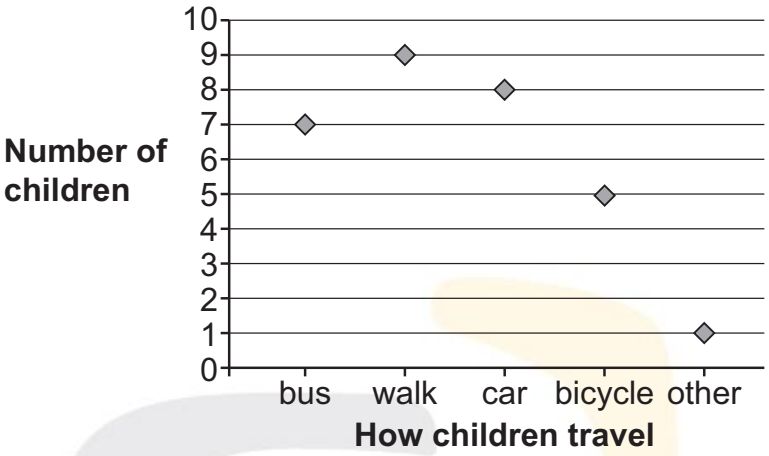
[1]

24 Here is some information about how children travel to school.

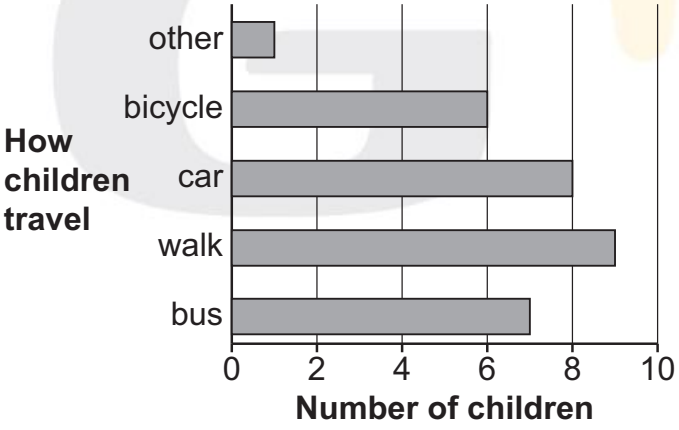
A

How children travel	Number of children
bus	𝍸 ||
walk	𝍸 ||||
car	𝍸 |||
bicycle	𝍸 |
other	|

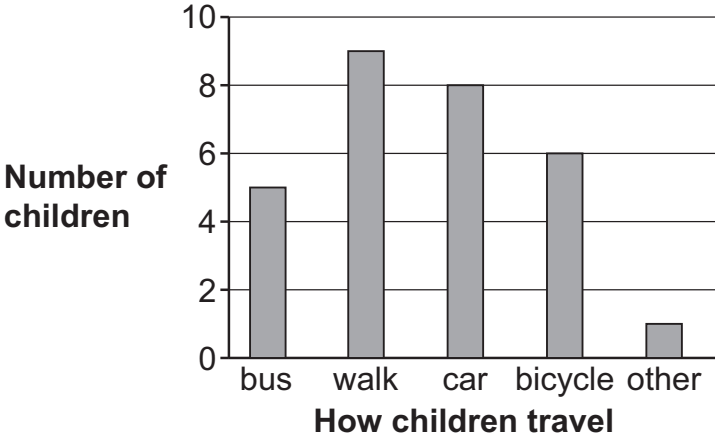
B



C



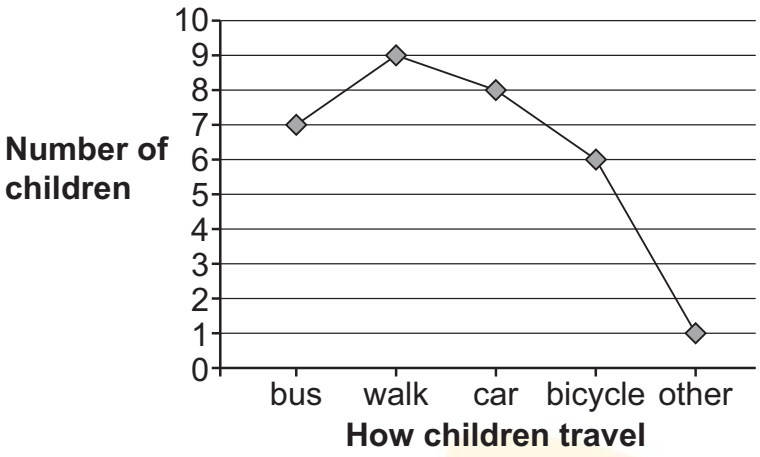
D



(a) Which two charts show the same information.

..... and ..... [1]

(b) Anastasia draws this graph to show the information in the tally chart.



Mia says,

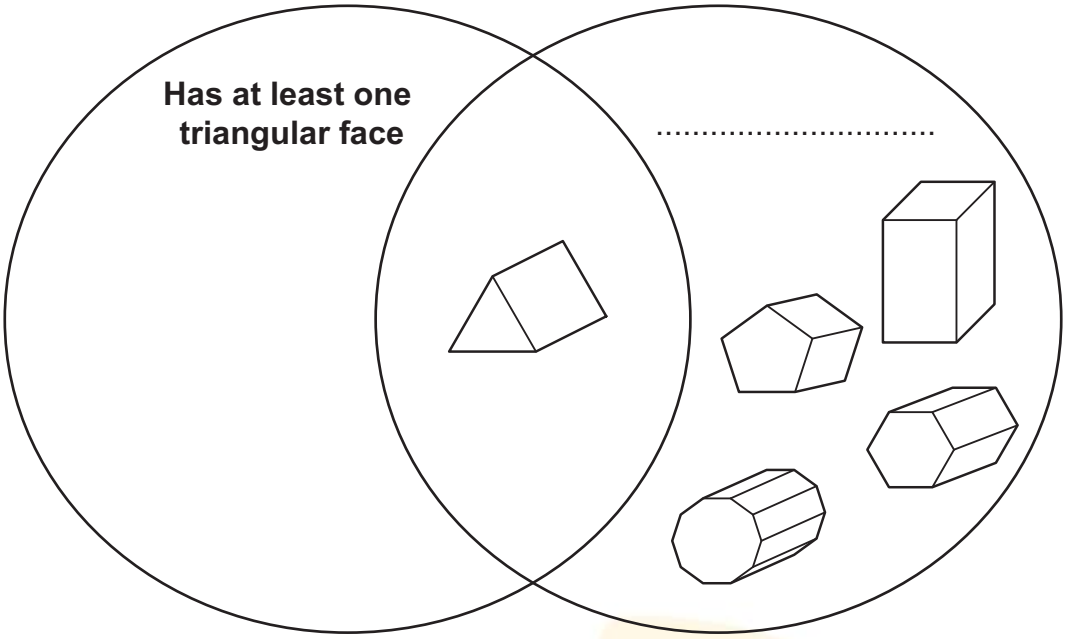
'You should not connect the dots with lines.'

Explain why Mia is correct.

.....

..... [1]

25 Rajiv has sorted some 3D shapes onto this Venn diagram.



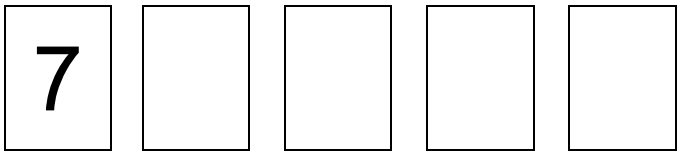
(a) Complete the missing label.

[1]

(b) Write the name of a shape that can go in the empty part of the Venn diagram.

..... [1]

26 Pierre has **five** number cards.



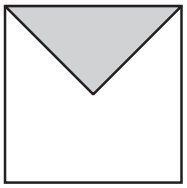
The median of the numbers is 6

The mode of the numbers is 3

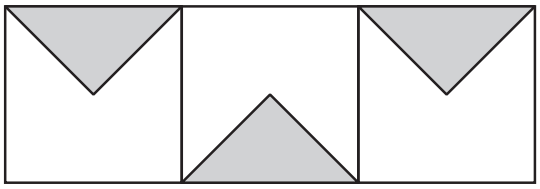
Write the missing numbers on the cards.

[1]

27 One quarter of this square tile is shaded.



Yuri joins three tiles to make a rectangle.

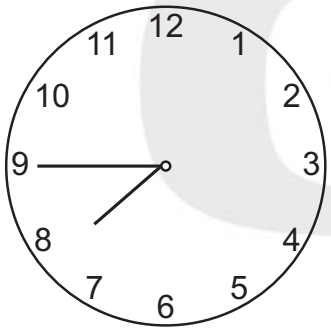


What **percentage** of the rectangle is shaded?

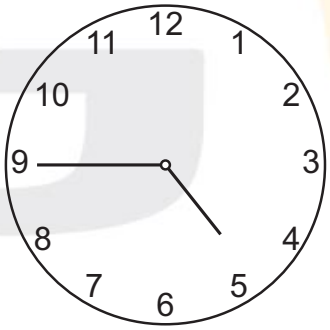
..... % [1]

28 These clocks show the time in different parts of the world when it is 07:45 in London.

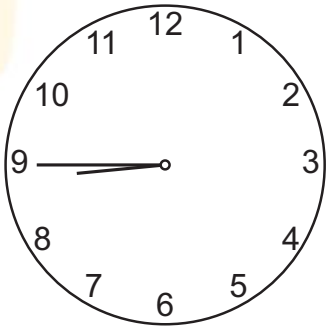
Times



London
07:45



Tokyo
16:45



Auckland
20:45

What is the time in Tokyo when it is midnight in Auckland?

..... [1]

29 Four people run a 40 kilometre race.
They each record their times.

Jamila runs the race in the shortest time.

Mike runs the race in 270 minutes.

Carlos runs each kilometre in 7 minutes.

Gabriella runs the race in 30 seconds less than 5 hours.

Write the names next to the correct times in the table.

Time	Name
4.5 hours	
4 hours and 40 minutes	
299.5 minutes	
4.1 hours	

[2]