

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.

< = >

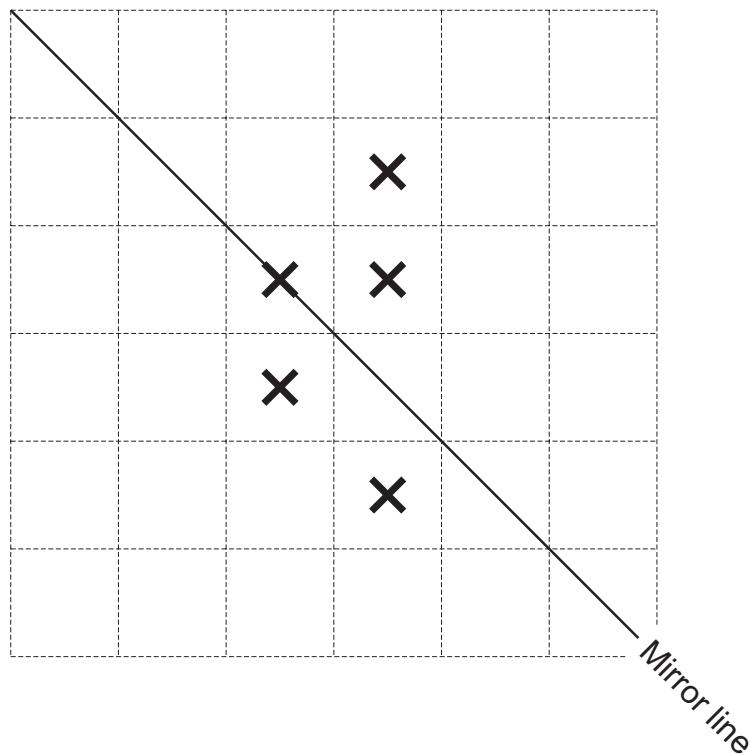
Write **one** of the symbols in each box to complete each statement.

$$2.34 + 0.43 \quad \square \quad 1.55 + 1.11$$

$$5.4 - 0.9 \quad \square \quad 6.4 - 1.9$$

[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		

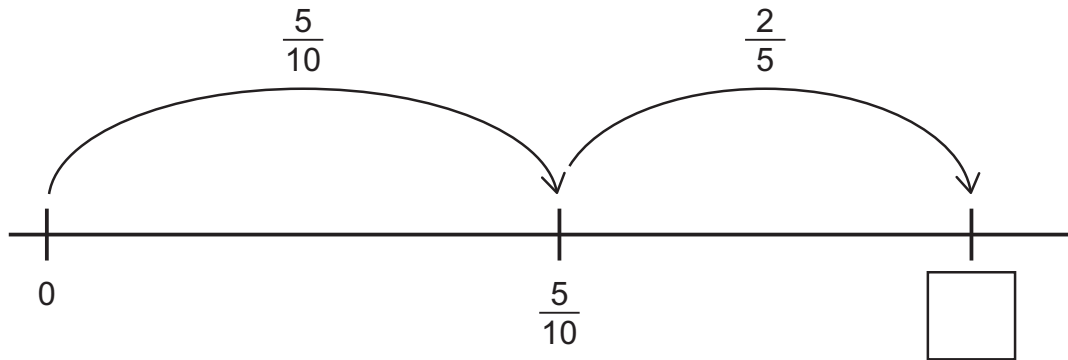
Here is information about two birds.

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

<p>Name: Alpine chough Maximum flying height: 8077 metres Endangered</p>	
<p>Name: Common crane Maximum flying height: 10 058 metres Not endangered</p>	

[1]

6 Write the missing fraction in the box.



[1]

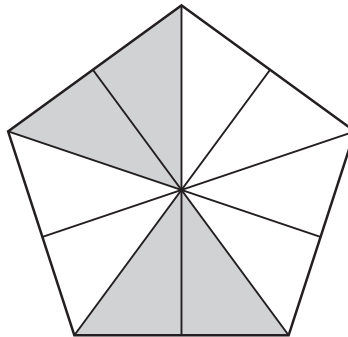
7 Draw a ring around **all** the numbers that are multiples of 4

450 540 504 405 445 544

[1]

8 Here is a regular pentagon.

It is divided into ten equal parts.

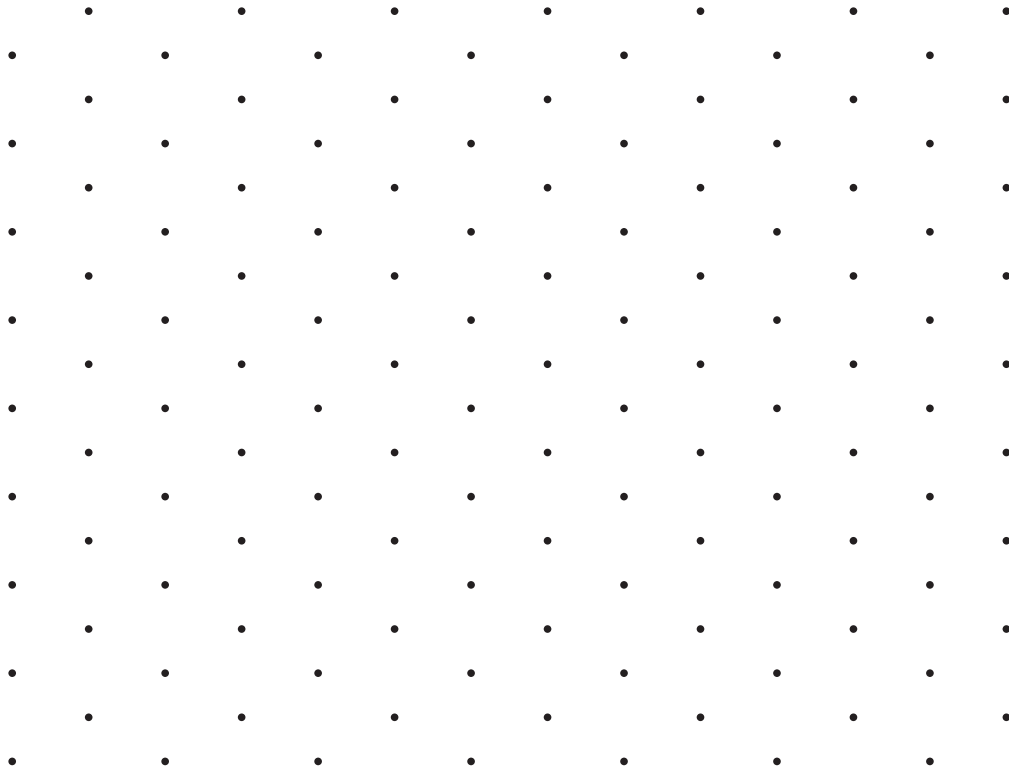


What percentage of the pentagon is shaded?

.....% [1]

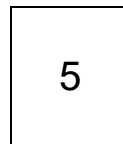
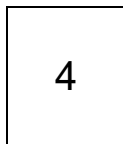
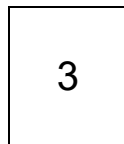
9 Here is an isometric grid.

Join dots to draw a cube.



[1]

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



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.

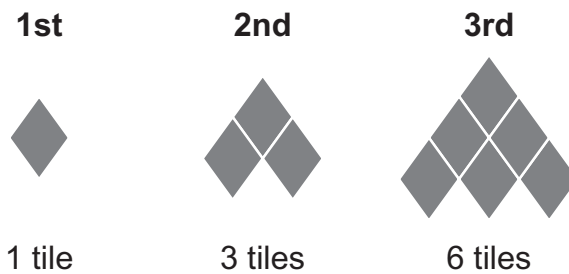
Write your name	0.5 seconds
Clap your hands once	5 seconds
Count to 50	50 seconds
Blow out one candle	

Note: A line is drawn from the 'Write your name' box to the '5 seconds' box.

[1]

12 Safia builds shapes with tiles.

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



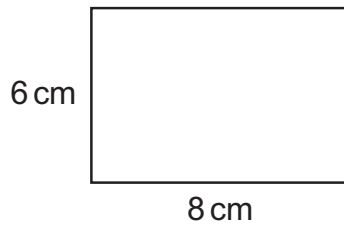
(a) How many tiles does Safia **add** to the 3rd shape to make the 4th shape?

.....tiles [1]

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

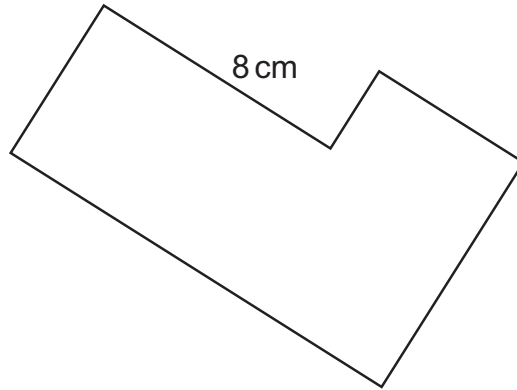
.....tiles [1]

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?

..... cm² [1]

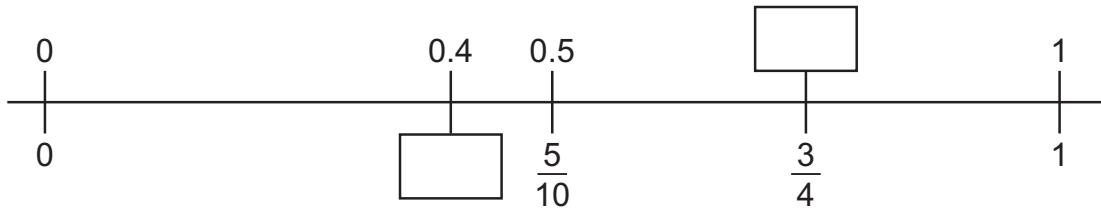
(b) What is the perimeter of the hexagon?

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.

$$\square \square \square \times \square = 1745$$

[1]

17 Oliver says,



I think more people in my class like apples than pears.

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.

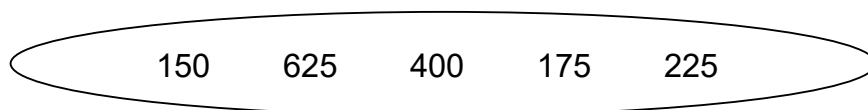
The number of people in his school who like pears.

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.



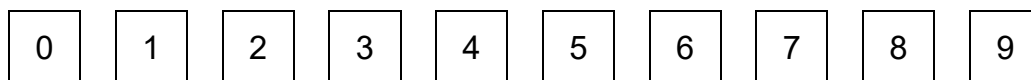
Complete the statements.

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.



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

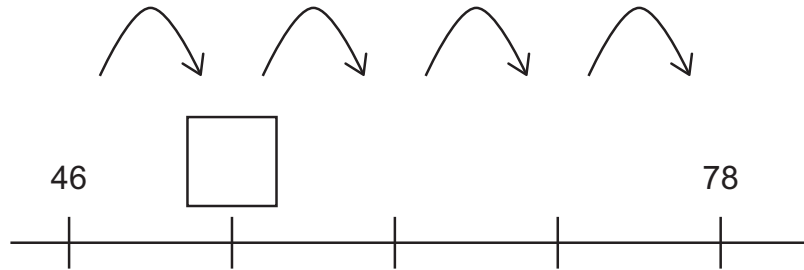
Hassan picks number 9

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.

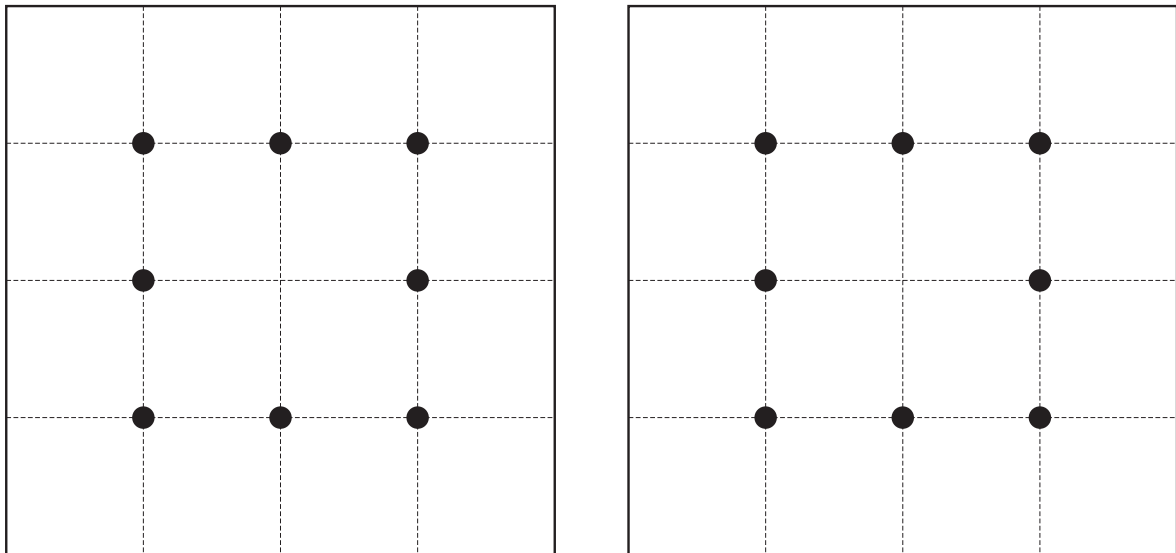


Write the correct number in the box.

[1]

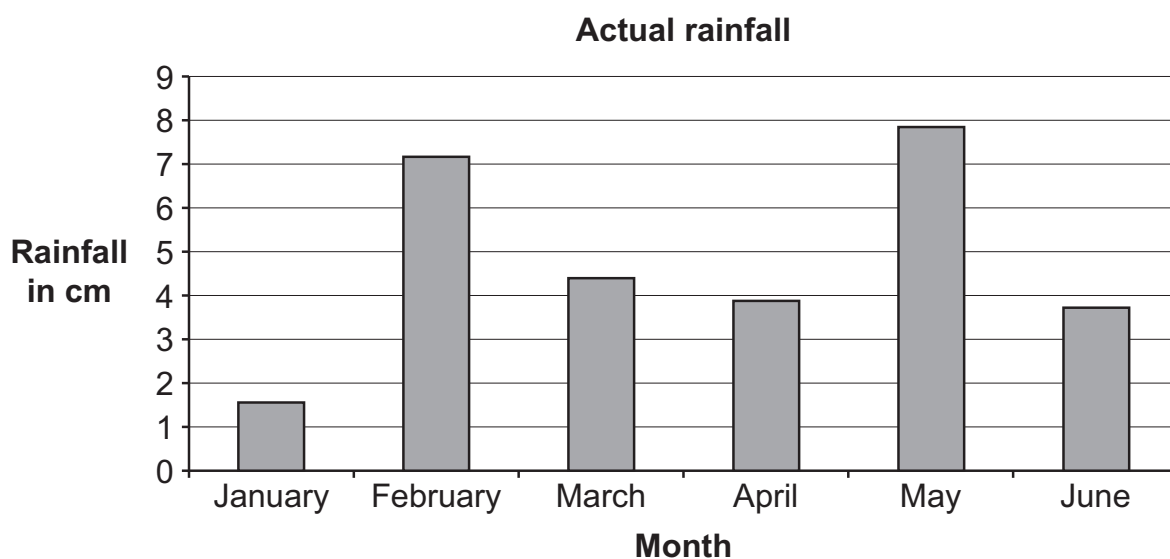
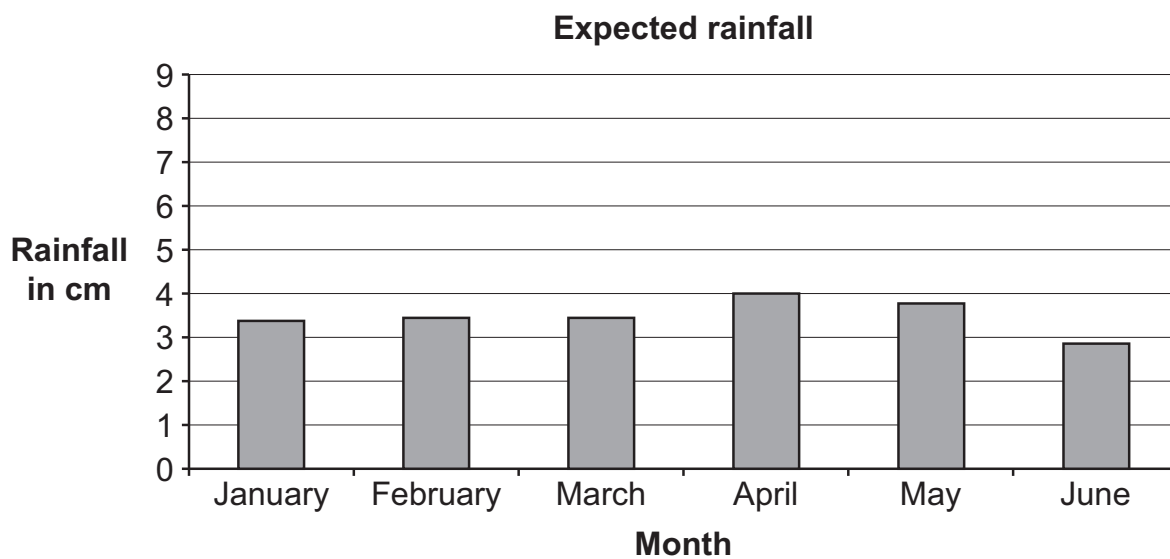
21 Here are some dots on two grids of squares.

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



[2]

22 Here is some information about rainfall in a town.



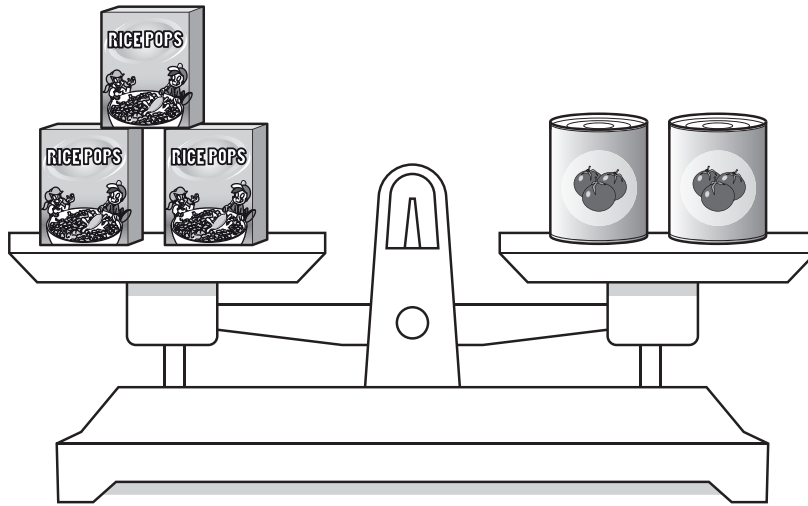
(a) In how many months was the actual rainfall greater than the expected rainfall?

..... 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.

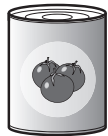


Each item has a mass between 300 and 500 grams.

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



.....g



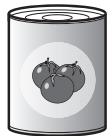
.....g

[1]

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



.....g



.....g

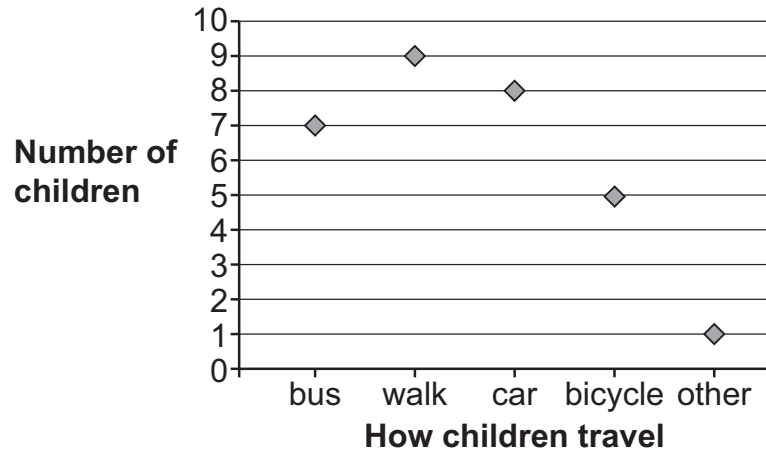
[1]

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

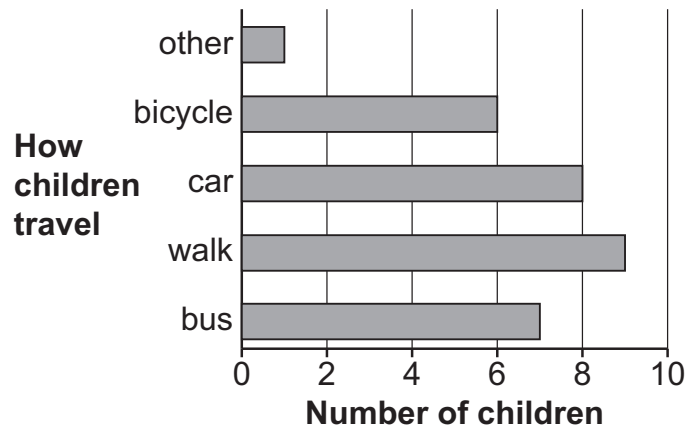
A

How children travel	Number of children
bus	###
walk	###
car	###
bicycle	###
other	

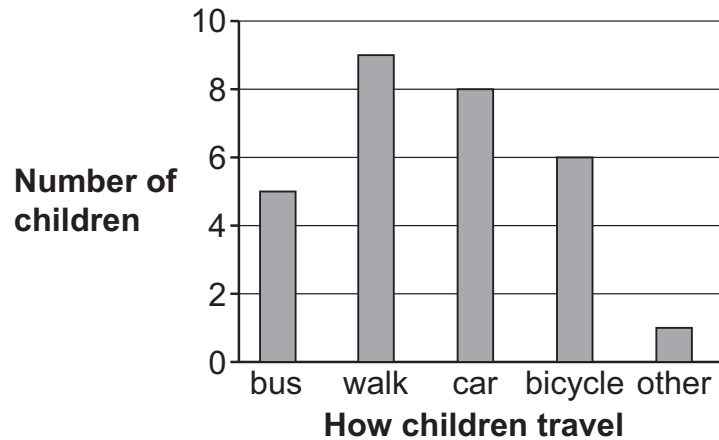
B



C



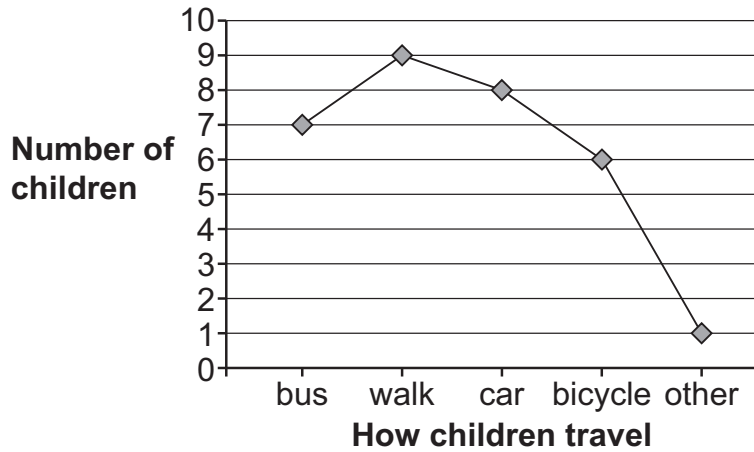
D



(a) Which two charts show the same information.

..... and [1]

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



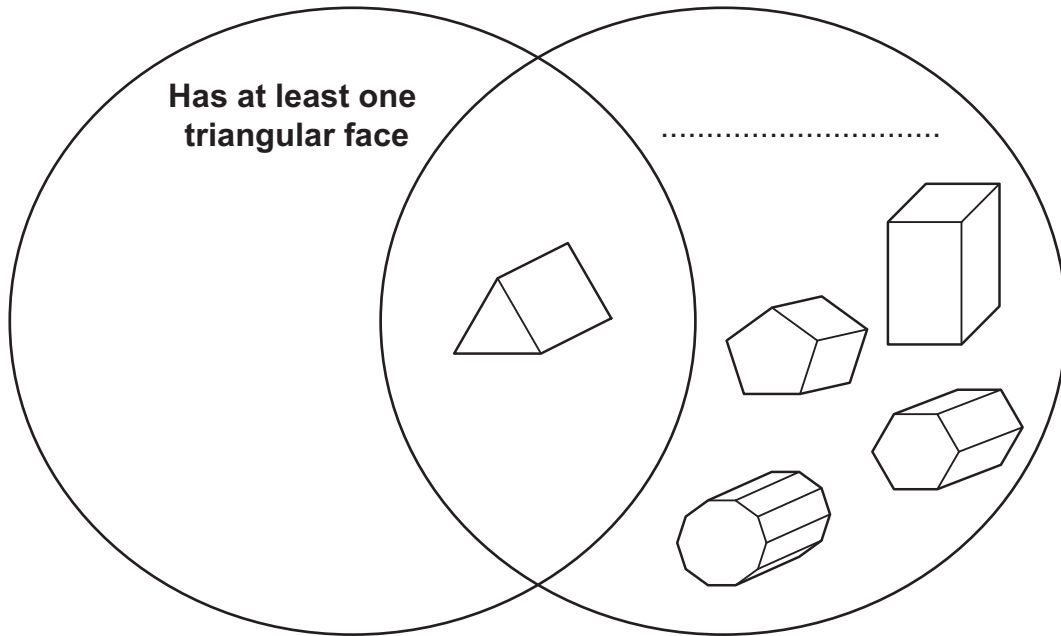
Mia says,

‘You should not connect the dots with lines.’

Explain why Mia is correct.

.....
 [1]

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



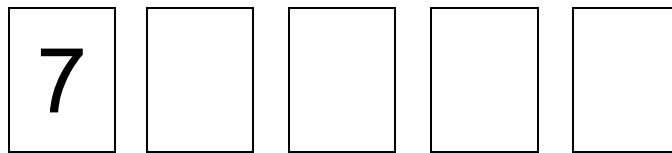
(a) Complete the missing label.

[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.



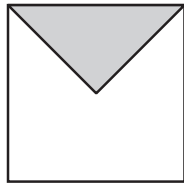
The median of the numbers is 6

The mode of the numbers is 3

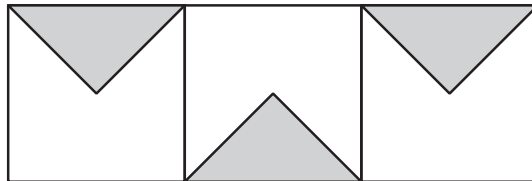
Write the missing numbers on the cards.

[1]

27 One quarter of this square tile is shaded.



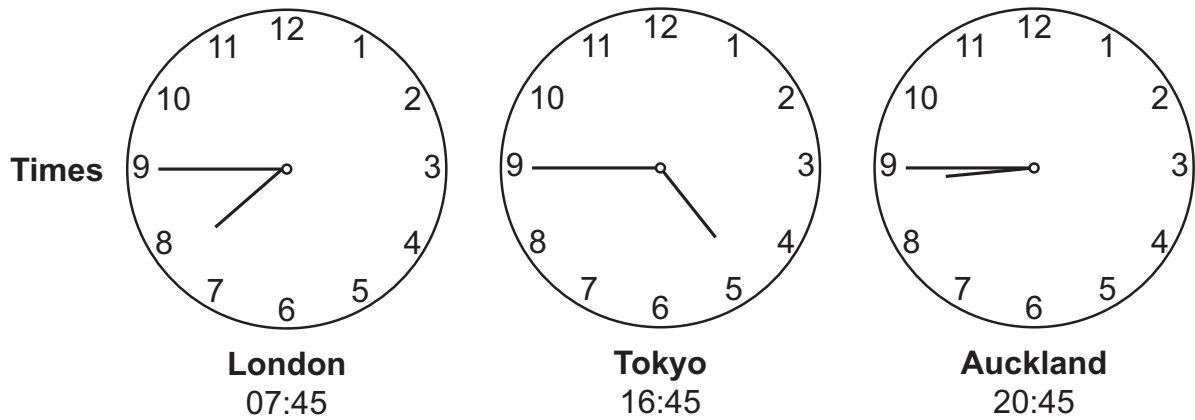
Yuri joins three tiles to make a rectangle.



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.



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]