Write your name here

Surname	Other names

Scholarship Paper 2026

Subject: Mathematics 1

Time: 1 Hour

You must have:
Pen, pencil, calculator, ruler

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name.
- Answer the questions in the spaces provided**.**
  - *there may be more space than you need*.

Information

- The total mark for this paper is **60**
- The marks for **each** question are shown in brackets

Advice

- Keep an eye on the time. Use the 60 marks in 60 minutes as a guide.
- Write your answers neatly and in good English.
- Try to answer every question, but read the question carefully before you start to answer it.
- Check your answers if you have time at the end.

Q1. The table shows some temperatures at midnight in Canada.

Town	Temperature at midnight
Banff	2°C
Norquay	–4°C
Revelstoke	–6°C
Calgary	5°C

(a) What is the difference in temperatures

(i) between Norquay and Revelstoke,

. . . . . °C

(ii) between Calgary and Revelstoke?

. . . . . °C **(2)**

In Revelstoke, the temperature drops by 11°C from midnight to 6am.

(b) What is the temperature in Revelstoke at 6am?

. . . . . °C **(1)**

(Total for Question is 3 marks)

Q2. Here is a list of numbers.

5 15 30 50 60 90 100 125

From the numbers in the list, write down

(i) two different numbers that add up to an even number

.....

(ii) a multiple of 20

.....

(iii) a factor of 45

.....

(iv) a cube number

.....

(Total for Question is 4 marks)

Q3. There are 210 counters in a bag. 30% of these counters are red.
Work out the number of red counters in the bag.

.....

(Total for question = 2 marks)

Q4. Jamie and Lily are at college.

They want to buy some lockers for their common room.
They decide to do a sponsored walk to raise the money to buy the lockers.

Some people will give them money for each mile they walk.
Some people will give them a fixed amount of money.

Here are Jamie's and Lily's sponsor forms.

Jamie's Form		
Name	**Amount**	**Total**
Jane	£1 per mile	
Neil	£12	£12
Nasir	£2 per mile	
	Total	

Lily's Form		
Name	**Amount**	**Total**
Claire	£10	£10
Ben	£15	£15
John	£1 per mile	
Sam	£5	£5
	Total	

Jamie and Lily each walk 18 miles.
The lockers cost £108

Do Jamie and Lily get enough money to buy the lockers?
You must show your working.

(Total for Question is 5 marks)

Q5.

(a) Write ¼ as a decimal.

.....

(1)

(b) Write 0.8 as a percentage.

. . . . . %

(1)

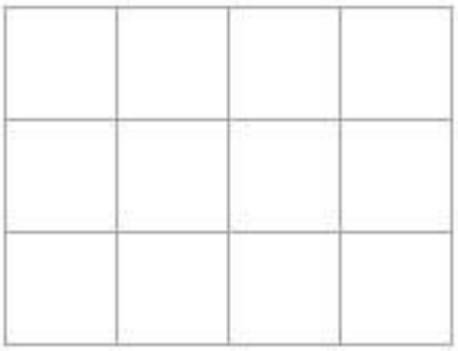
(c) Write the ratio 2 : 6 in its simplest form.

.....

(1)

(Total for Question is 3 marks)

Q6. Here is a shape.



Shade $\frac{3}{4}$ of this shape.

(Total for Question is 1 mark)

Q7. A pile of sand has a weight of 60 kg.
The sand is put into a small bag, a medium bag and a large bag in the ratio 2 : 3 : 7

Work out the weight of sand in each bag.

small bag . . . . . kg

medium bag . . . . . kg

large bag . . . . . kg

(Total for Question is 3 marks)

Q8.

Here is a list of numbers.

4 8 5 9 10 5 6 3 4

(a) Work out the median.

.....

(2)

(b) Work out the mean.

.....

(2)

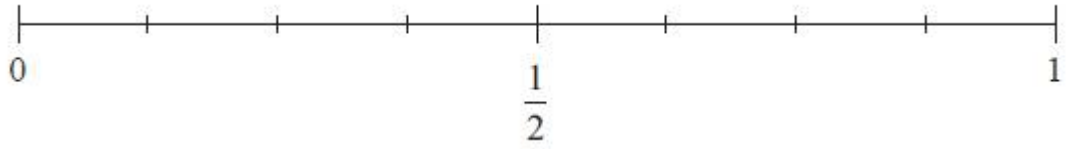
(Total for Question is 4 marks)

Q9. Luke has a fair 8-sided dice.

The dice is labelled 1, 2, 3, 4, 5, 6, 7 and 8

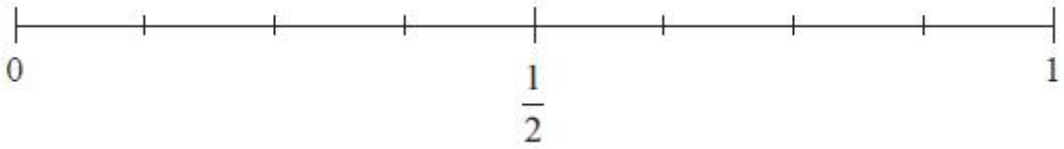
Luke rolls the dice once.

(a) On the probability scale below, mark with a cross (×) the probability that Luke gets an even number.



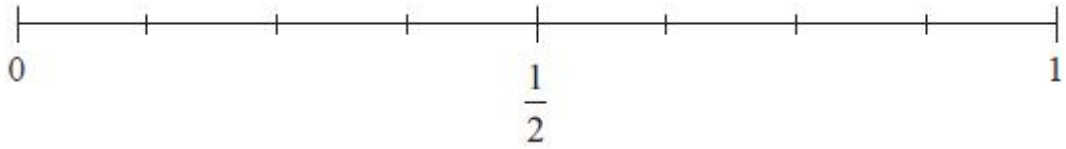
(1)

(b) On the probability scale below, mark with a cross (×) the probability that Luke gets a number less than 10



(1)

(c) On the probability scale below, mark with a cross (×) the probability that Luke gets a number greater than 6



(1)

(Total for question = 3 marks)

Q10.

Work out $\frac{3}{5} - \frac{1}{3}$ showing your full working

.....

(Total for Question is 2 marks)

Q11.

Here are the ingredients needed to make 10 pancakes.

Pancakes

Ingredients to make **10** pancakes

300 m*l*	of milk
120 g	of flour
2	eggs

Matthew makes 30 pancakes.

(a) Work out how much flour he uses.

..... g

(2)

Tara makes some pancakes.
She uses 750 m*l* of milk.

(b) Work out how many pancakes she makes.

.....

(2)

(Total for Question is 4 marks)

Q12.

(a) Simplify $5x + 4y + x - 7y$

.....**(2)**

(b) Solve $7(x + 2) = 7$

.....**(2)**

(Total for Question is 4 marks)

Q13.

(a) Expand and simplify $7a + 4(a - 2b)$

..... **(2)**

(b) Simplify $n^6 \times n^5$

..... **(1)**

(c) Factorise $5x + 10$

..... **(1)**

(Total for question = 4 marks)

Q14. $p = 2e + 3g$

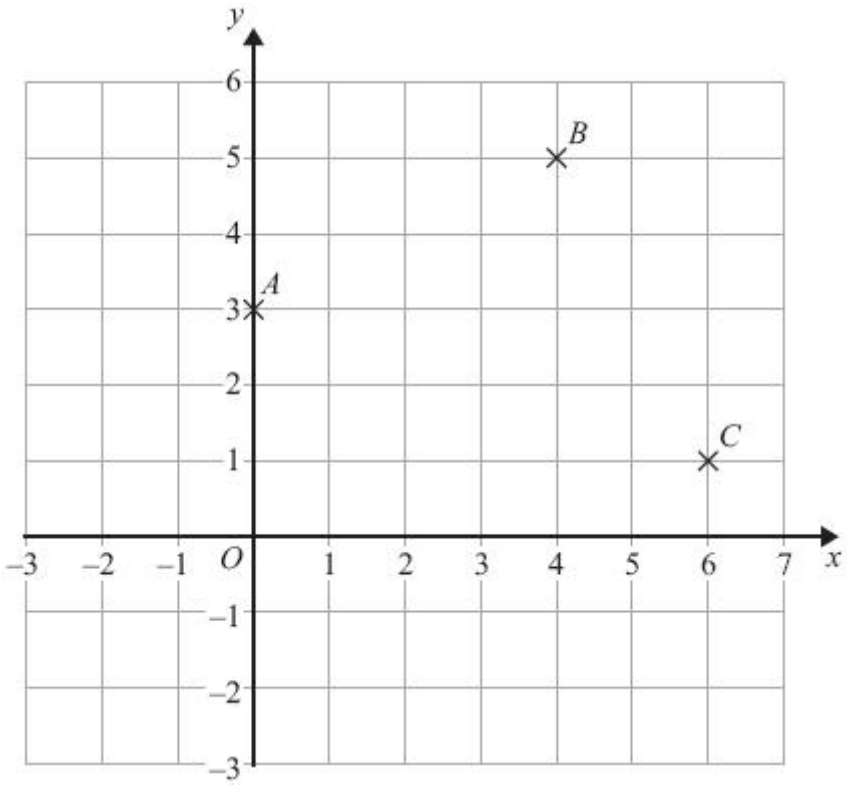
$e = 6.5$
$g = 2$

Work out the value of p.

.....

(Total for question = 2 marks)

Q15.



(a) Write down the coordinates of the point B.

.....

(1)

A, B and C are three corners of a square.

(b) On the grid, mark with a cross (×) the point D so that $ABCD$ is a square.

(1)

(Total for Question is 2 marks)

Q16.

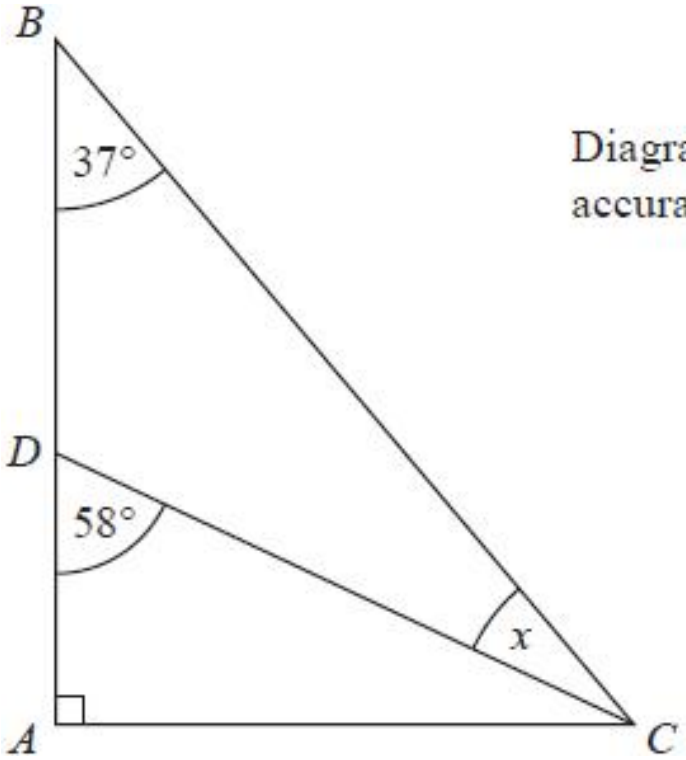


Diagram **NOT** accurately drawn

ABC is a right-angled triangle.
ADB is a straight line.

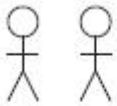
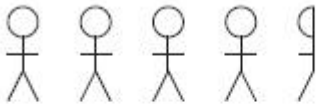
Work out the size of the angle marked *x*.

..... °

(Total for question = 2 marks)

Q17. Heidi asks all the children in her class to tell her the sport they like best.

The pictogram shows how many children like swimming best, like netball best and like football best.

Swimming	
Netball	
Football	
Cricket	

Key:  represents 2 children

8 children like cricket best.

(a) Use this information to complete the pictogram.

(1)

(b) Work out the total number of children in Heidi's class.

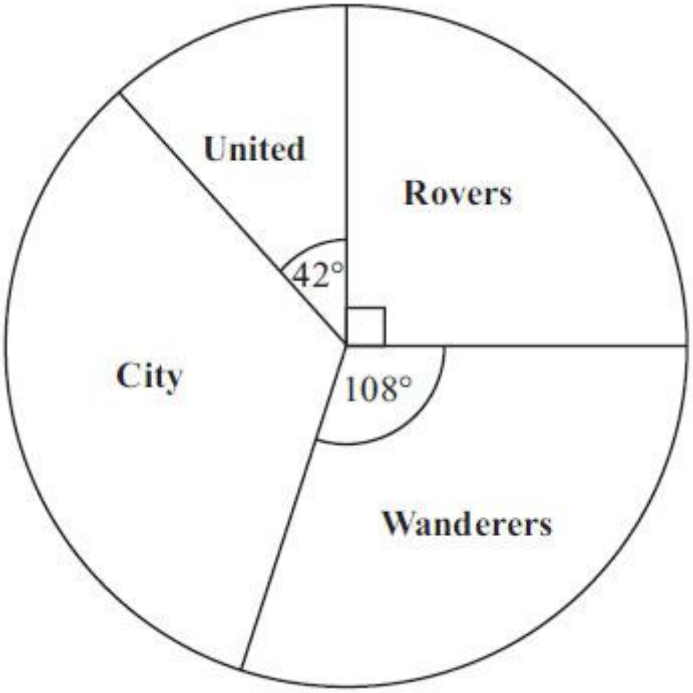
.....

(2)

(Total for question = 3 marks)

Q18. Alex asked some people to name their favourite football team.

The pie chart shows his results.



(a) What fraction of the people named Rovers as their favourite team?

.....

(1)

20 people named City as their favourite football team.

(b) How many people named Rovers as their favourite team?

.....

(4)

(Total for Question is 5 marks)

Q19. Pete works in a garage. He uses an oil heater to heat the garage.

Pete uses the oil heater for $5\frac{1}{2}$ hours each day.

The oil heater uses 0.75 litres of oil each hour.

Pete is going to work in the garage for 60 days.
He has 250 litres of oil.

Does Pete have enough oil to heat the garage for 60 days?
You must show clearly how you got your answer.

(Total for question = 4 marks)

End of assessment