THIRD SPACE LEARNING

Mathematics Paper 2 (Calculator) Foundation Tier

Edexcel GCSE

SET 5

For teachers

Students are marking a completed paper rather than sitting it, so there is no time limit. Use the separate mark scheme to check their decisions and the marks they award.

- **Whole class:** display a page and mark it together, pausing to discuss each error.
- **In pairs:** one student marks while the other checks against the mark scheme, then they swap.
- **Independent revision or intervention:** students answer the questions themselves first, or focus on the topics they need to revisit.

This paper is based on the topics in the advance information for the November 2026 exam series. It is not possible to predict the content of the real exams, so students should continue to revise the full specification.

Instructions

A student has sat this practice paper. Some of their answers are correct, but others contain mistakes – in the method, the working or the final answer.

Work through the paper as if you were the examiner:

- Decide whether each answer is correct or incorrect.
- For each incorrect answer, find the point where the mistake happens and explain what went wrong.
- Write out the correct working and answer.
- Use the mark scheme to check your decisions and award the marks the student would have earned.

Not every answer is wrong, so be ready to explain why a correct answer is correct.

Mathematics Paper 2 (Calculator) Foundation Tier Edexcel GCSE SET 5

Name

Total marks

Paper length: 1hr 30mins



Question	Mark
1	
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Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may be used.

Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

This practice paper is based on the topics from the **advanced information for the November 2026 exam series.**

Please note, this practice paper is an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers

1 Write the following numbers in order of size.

Start with the smallest number.

-7 -1 0.7 7 -17

-17, -7, -1, 0.7, 7

(Total for Question 1 is 1 mark)

---

2 Write 77% as a fraction.

$\frac{77}{100}$

(Total for Question 2 is 1 mark)

---

3 Round 38729 to the nearest 100

38800

(Total for Question 3 is 1 mark)

---

4 **(a)** Simplify $b + b + b + b$

4b

(1)

(b) Simplify $3a + a + 7a - 2a$

8a

(1)

(Total for Question 4 is 2 marks)

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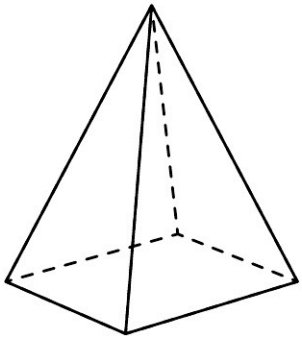
5 Here is a 3D shape.



Write down the mathematical name of this shape.

point

(Total for Question 5 is 1 mark)

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6 Lorraine writes down the number of miles her car has travelled before and after a journey.

Before	69543
After	69871

Lorraine can claim 45p per mile from her employer to cover her travel expenses.

How much can Lorraine claim for this journey?

Give your answer in pounds.

$69871 \times 45p = 3144\,195p$

£ 31441.95

(Total for Question 6 is 4 marks)

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7 Hannah is going to do some campfire cooking.

Here are the options of what Hannah could cook:

Food	Drink
Campfire stew (S)	Hot chocolate (C)
Jacket potatoes (P)	Tea (T)
Cinnamon Buns (B)	Warm apple juice (A)

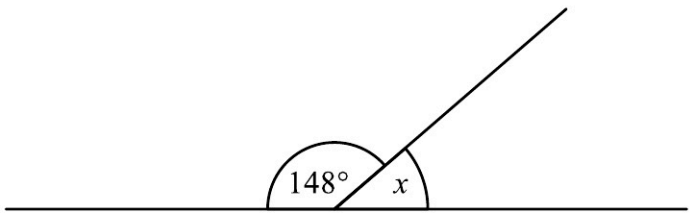
Hannah is going to choose one food and one drink.

Write down the possible combinations Hannah could choose.

SC PT BA

(Total for Question 7 is 2 marks)

8 Work out the size of angle x



180 − 148 =

32 °

(Total for Question 8 is 1 mark)

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9 Here is part of a bus timetable between Saron and Carmarthen

Saron	0711		0811		0911
Cwmduad	0722		0823		0923
Cynwel Elfed	0729	0800	0831	0900	0931
Bronwydd	0736	0807	0839	0908	0939
Abergwili	0744	0815	0848	0917	0948
Carmarthen	0750	0821	0855	0924	0955

(a) How long should the 0711 bus from Saron take to get to Abergwili?

33 *minutes*

(1)

(b) Sheila catches the bus from Saron to Carmarthen.

It takes Sheila 8 minutes to walk from her house to the bus stop in Saron.

It takes Sheila 11 minutes to walk from the bus stop in Carmarthen to her office.

Sheila needs to get to work in Carmarthen by 0915

Write out a plan for Sheila's journey.

State the latest time that Sheila can leave the house and the time she will get to work.

catch the bus : 0811

get off the bus : 0855

(3)

(Total for Question 9 is 4 marks)

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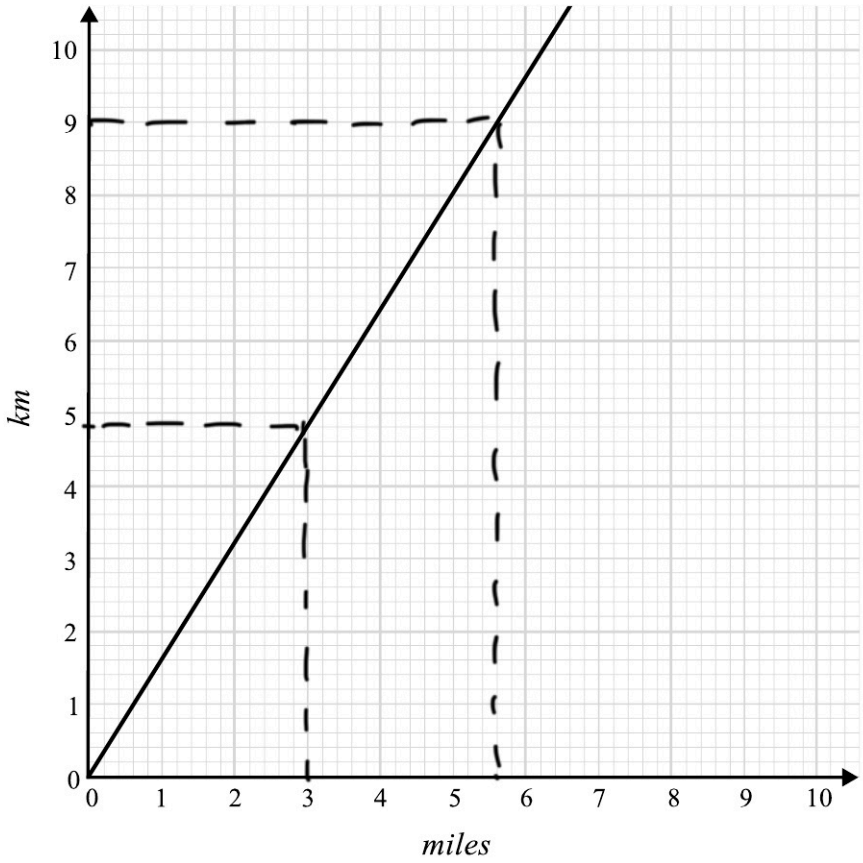
10 This graph can be used to convert miles into km.



(a) Use the graph to convert 3 miles into km.

4·4 km

(1)

(b) The speed limit on a road is 90km/h.

Gary drives along the road at 58 miles per hour.

Does Gary break the speed limit?

Show how you decide.

9km = 5·3km

90km = 53km

Gary drives at 58 m/h so he breaks the speed limit.

(3)

(Total for Question 11 is 4 marks)

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11 Write the following fractions in order of size.

Start with the smallest.

$$\frac{3}{4} \qquad \frac{7}{10} \qquad \frac{3}{5} \qquad \frac{33}{40}$$

$\frac{3}{4}$ $\frac{3}{5}$ $\frac{7}{10}$ $\frac{33}{40}$

(Total for Question 11 is 2 marks)

---

12 **(a)** Work out $\dfrac{\sqrt{52 - 4.3^2}}{2.2}$

Write down all the figures on your calculator display.

2.631264662

(2)

(b) Round your answer to 2 decimal places.

2.63

(1)

(Total for Question 12 is 3 marks)

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13 150 people chose their favourite pizza toppings from margherita, pepperoni and Hawaiian.
Of the 150 people, 82 were children.

62 people chose margherita.
42 children chose margherita.
18 children chose Hawaiian.
Twice as many adults as children chose Hawaiian.

Work out the number of children who chose pepperoni.

	Margherita	Hawaiian	Pepperoni	Total
Child	42	18		82
Adult	20	36		68
Total	62			150

$68 - 36 - 20 = 12$

(Total for Question 13 is 4 marks)

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14 A factory produces 3000 tubes of toothpaste per day.

A box contains 24 tubes of toothpaste.

A crate contains 16 boxes.

How many full crates of toothpaste are produced in 5 days?

tubes of toothpaste in 5 days = 3000 × 5
= 15000

24 × 16 = 384 tubes per box

15000 × 384 =

5760000

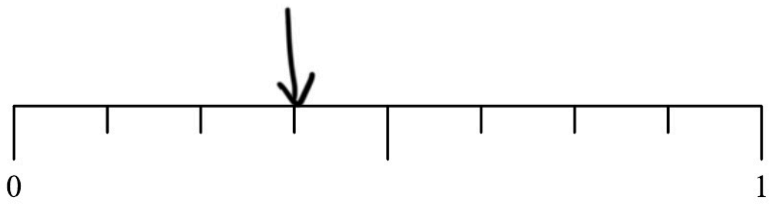
(Total for Question 14 is 4 marks)

---

15 Niamh has a bag containing 3 blue counters, 7 green counters and 6 yellow counters.

Draw an arrow (↓) on the probability scale to show the probability that Niamh picks a yellow counter from the bag.

$P(Y) = \frac{6}{16} = \frac{3}{8}$



(Total for Question 15 is 2 marks)

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16 The table shows information about the number of children in 50 primary schools.

Number of children	Frequency	F x Children
$0 < c \leq 100$	6	600
$100 < c \leq 200$	16	3200
$200 < c \leq 300$	11	3300
$300 < c \leq 400$	10	4000
$400 < c \leq 500$	7	3500

Work out an estimate for the mean number of children in the schools.

600 + 3200 + 3300 + 4000
+ 3500
= 14600

$$\frac{14600}{50} = 292$$

(Total for Question 16 is 3 marks)

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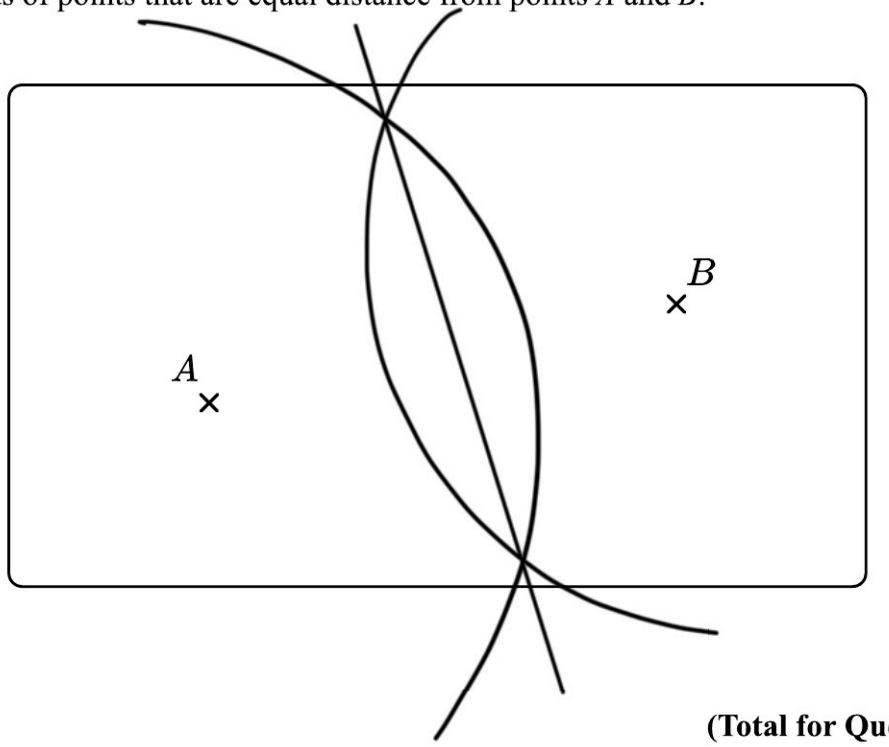
17 Here are two points, A and B.

Construct the locus of points that are equal distance from points A and B.



(Total for Question 17 is 2 marks)

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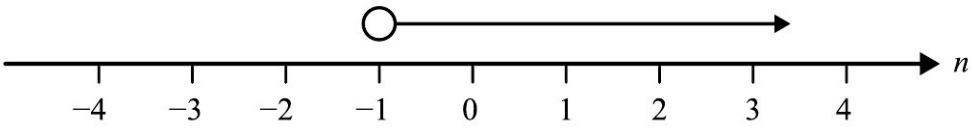
18 (a)



Write down the inequality shown on the number line.

$x \geqslant -1$

(1)

(b) Solve $3p - 11 < p + 5$

$3p - 11 < p + 5$

$2p - 11 < 5$

$2p < 16$

$p < 8$

$p < 8$

(2)

(Total for Question 18 is 3 marks)

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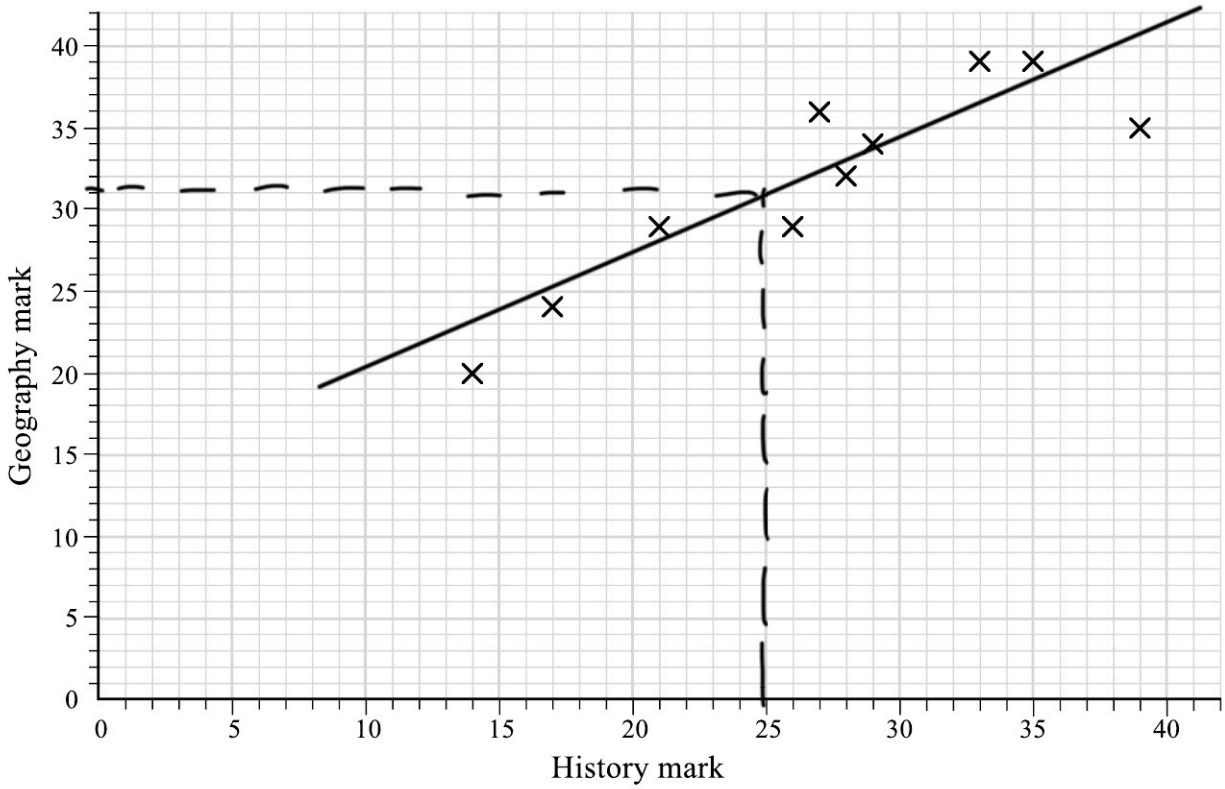
19 The scatter diagram shows the history and geography marks of 10 students in their recent tests.



(a) Describe the relationship between students' marks in the history test and the geography test.

positive correlation

(1)

(b) Another student scored 25 in the history test.

Use the graph to estimate this student's score in the geography test.

31

(2)

(c) Both tests were out of 40. Which test do you think was easier? Explain why.

Geography seems to be easier.

(2)

(Total for Question 19 is 5 marks)

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20 **(a)** The first 5 terms of an arithmetic sequence are

6 11 16 21 26...

Find an expression in terms of n for the nth term of this sequence.

Sn

(2)

(b) The *nth* term of a different sequence is $n^2 + 3$

172 is a term in this sequence.

Find the next term after 172.

$n^2 + 3 = 172$

$n^2 = 169$

$n = 13$

13th term = 172

14th term $= 14^2 + 3$

$= 199$

(3)

(Total for Question 20 is 5 marks)

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21 **(a)** The ratio of adults:children watching a film at the cinema is 3:5.

There are 27 adults watching the film.

How many children are watching the film?

A : C

3 : 5

27 : 45

45

(2)

(b) $\frac{3}{5}$ of the children have popcorn.

$\frac{2}{3}$ of the adults have popcorn.

What percentage of the people watching the film have popcorn?

$\frac{3}{5}$ of 45 = 27

$\frac{2}{3}$ of 27 = 18

27 + 18 = 45

45%

(3)

(Total for Question 21 is 5 marks)

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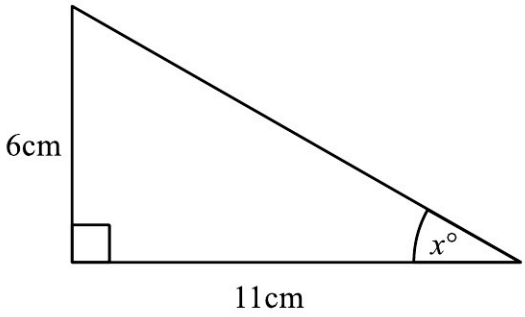
22



Work out the value of x

Give your answer correct to 3 significant figures

$$\sin(x) = \frac{6}{11}$$

$$x = \sin^{-1}\left(\frac{6}{11}\right)$$

$$= 33.1$$

33.1 °

(Total for Question 22 is 2 marks)

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23 Frankie invests £7000 in a bank account

Frankie gets 6% per annum compound interest

After n years, Frankie has £9367.58

Work out the value of n

$7000 \times 1.06^4 = 8837.34$

$7000 \times 1.06^5 = 9367.58$

$7000 \times 1.06^6 = 9929.63$

5

(Total for Question 23 is 2 marks)

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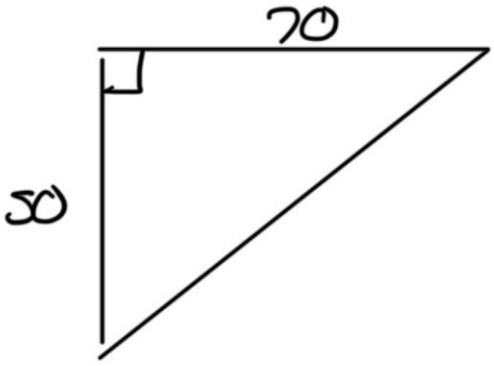
24 A helicopter travels 50*km* north and then 70*km* east.

The helicopter then travels directly back to its starting point.

The cost of fuel for the helicopter is £2.50 per *km*.

What is the cost of the fuel for the helicopter's journey?



$50^2 + 70^2 = 7400$

$\sqrt{7400} = 86.02...$

$86.02 \times 2.50 =$

£ 215.05

(Total for Question 24 is 4 marks)

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25 Solve

$3a + 2b = 11$

$4a - 5b = 30$

(A) $3a + 2b = 11$

(B) $4a - 5b = 30$

5×(A) $15a + 10b = 55$

2×(B) $4a - 10b = 60$

$19a = 115$

$a = 6.05...$

$3(6.05) + 2b = 11$

$18.157... + 2b = 11$

$2b = 7.157$

$b = 3.57..$

$a =$ 6.05

$b =$ 3.57

(Total for Question 25 is 3 marks)

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26 **(a)** Find the reciprocal of 0.4

$\frac{1}{0.4}$

(1)

(b) $x = 5.3$ to 2 significant figures

Complete the error interval for x

$5.2 \leq x < 5.4$

(2)

(Total for Question 26 is 3 marks)

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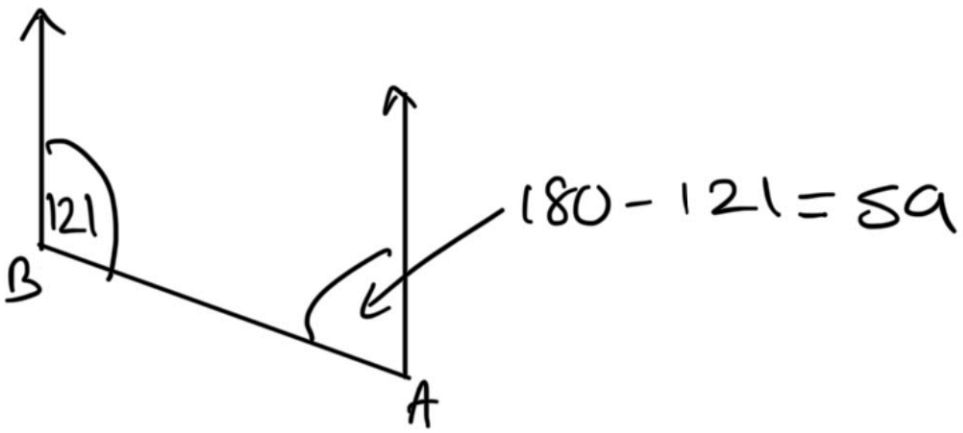
27 The bearing of A from B is 121°.

What is the bearing of B from A?



59°

(Total for Question 27 is 2 marks)

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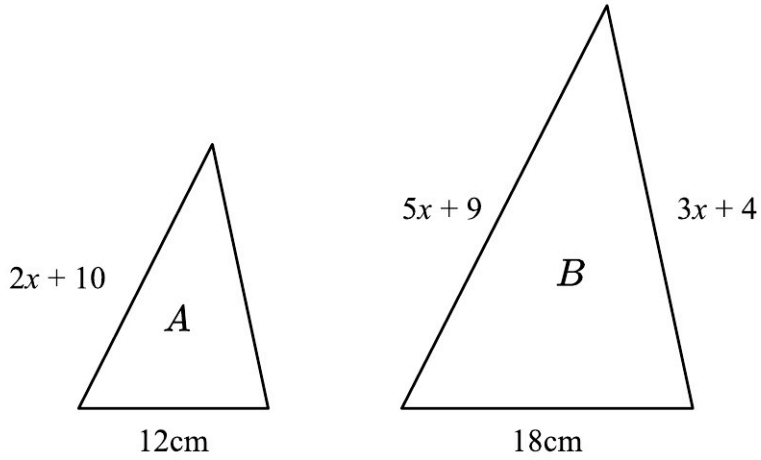
28 Triangles A and B are similar triangles.



Work out the perimeter of triangle B.

Perimeter of B = $5x+9+3x+4+18$

$= 8x+31$

$8x+31$ cm

(Total for Question 28 is 5 marks)

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