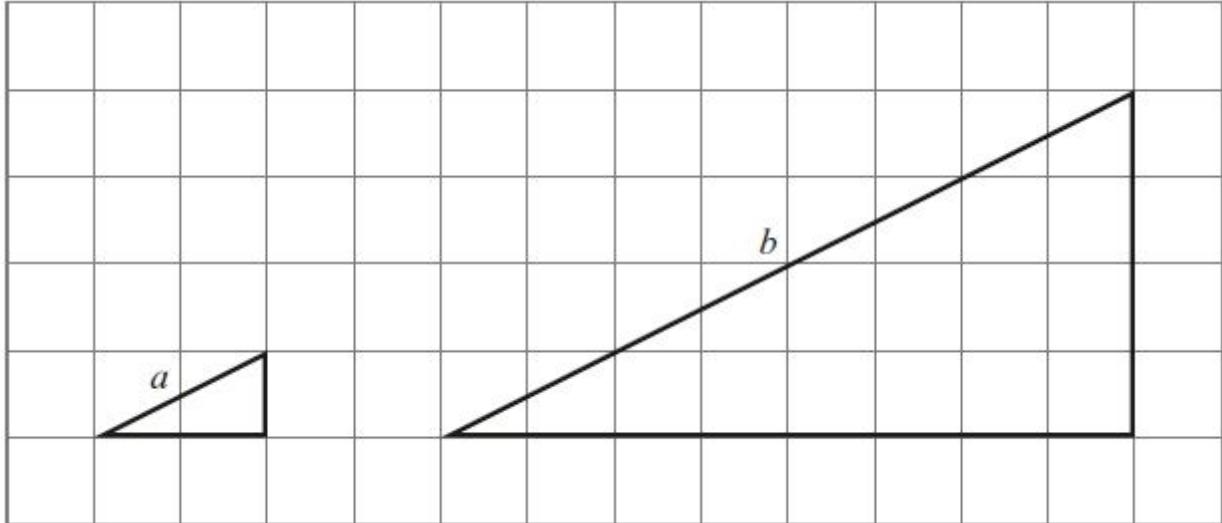


Q5.

Here are two similar right-angled triangles.



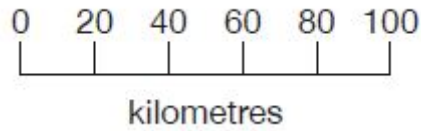
Write the ratio of side a to side b .

$$a : b = \boxed{\quad : \quad}$$

1 mark

Q6.

On a map, 1 cm represents 20 km.



The distance between two cities is **250 km**.

On the map, what is the distance between the two cities?

Show your method

Mark schemes

Q1.

Award **TWO** marks for the correct answer of 30

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $17.5 \times 12 = 210$
 $15 \times 12 = 180$
 $210 - 180 =$

OR

- $2.5 \times 12 =$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

Q2.

Award **TWO** marks for the correct answer of 1,408

OR

for an answer in the range of 1,406 to 1,409 inclusive.

If the answer is incorrect, award **ONE** mark for:

- sight of 1,392

OR

- evidence of an appropriate method, e.g.

- $24 \times 58\frac{2}{3} = \text{answer}$

Within an appropriate method, if a decimal equivalent for $\frac{2}{3}$ is given, it must be rounded or truncated to at least 2 decimal places.

- $24 \times 58 = 1,394$ (error)

$$\frac{2}{3} \text{ of } 24 = 16$$
$$1,394 + 16 = \text{answer}$$

- $24 \times \frac{176}{3} = \text{answer}$
- $24 \times 58.67 = \text{answer.}$

*A final answer is required for the award of **ONE** mark.*

Up to 2m

[2]

Q3.

Q4.

Award **TWO** marks for the correct answer of 3.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $2.5 \times 6 = 15$
 $15 \div 5$

*Answer need not be obtained for the award of **ONE** mark.*

*Misreads are **not** allowed.*

Up to 2m

[2]

Q5.

1:4

Accept other equivalent ratios, e.g. 2:8 or 0.5:2

***Do not** accept reversed ratios, e.g. 4:1 or 8:2*

[1]

Q6.

Award **TWO** marks for the correct answer of 12.5

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $250 \div 20$

OR

- 20 km is 1 cm
100 km is 5 cm
50 km is 2.5 cm
5 cm + 5 cm + 2.5 cm

*Answer need not be obtained for the award of **ONE** mark.*

***Do not** accept incorrect proportions in any step without evidence of the calculation performed.*

Up to 2m

[2]

Q7.

Award **TWO** marks for the correct answer of 119.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $140 \div 20 = 7$

$$3 \times 7 = 21$$
$$140 - 21$$

OR

- $140 \div 20 = 7$
 $20 - 3 = 17$
 17×7

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

Q8.

Award **TWO** marks for the correct answer of 60

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- Ate 10, gave away 5
Ate 40, gave away 20
Ate 40 + 20 = wrong answer
- $40 \div 10 = 4$
 $4 \times 5 = 20$
 $20 + 40 = \text{wrong answer}$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2
U1

[2]

Q9.

Award **TWO** marks for the correct answer of 1.05 kg.

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- $12 \div 4 = 3$
 $350 \times 3 = 1050$
 $1050 \div 1000 = \text{wrong answer}$

Do not accept 1050 g

Accept for **ONE** mark 10.5 or 105 as evidence of appropriate working.

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

Q10.

Award **TWO** marks for the correct answer of 90g.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $300 \div 400 = \frac{3}{4}$

$$\frac{3}{4} \times 120$$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]