

1.4 Answers

GCSE Mathematics Ratio and Similarity

1.4.1 Solutions (Example N° 1)

$x = 8 \times \frac{5}{4} = 10 \text{ m}$
 $y = 25 \times \frac{4}{5} = 20 \text{ m}$

[2 marks]

1.4.2 Solutions (Example N° 2)

$k = 10 \times \frac{7}{2} = 35 \text{ cm}$

[2 marks]

1.5.2 Solutions (Exercise)

Answer 1

$p = 6 \times \frac{3}{2} = 9 \text{ m}$
 $q = 21 \times \frac{2}{3} = 14 \text{ m}$

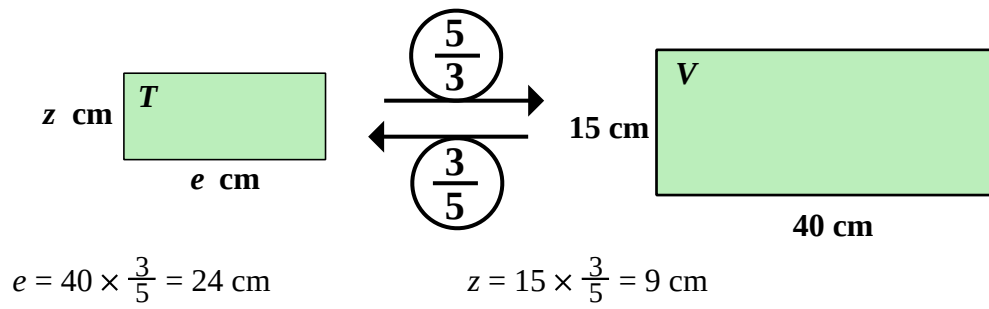
[2 marks]

Answer 2

$a = 25 \times \frac{7}{5} = 35 \text{ m}$
 $b = 28 \times \frac{5}{7} = 20 \text{ m}$

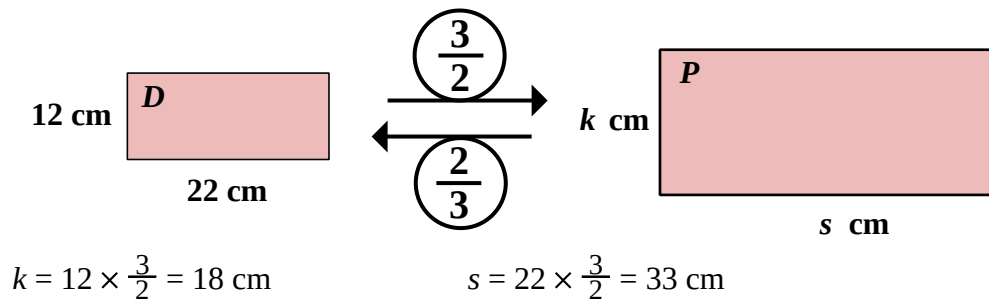
[2 marks]

Answer 3



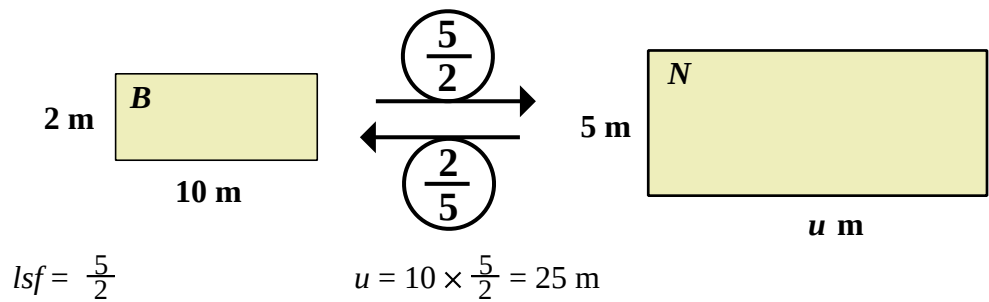
[2 marks]

Answer 4



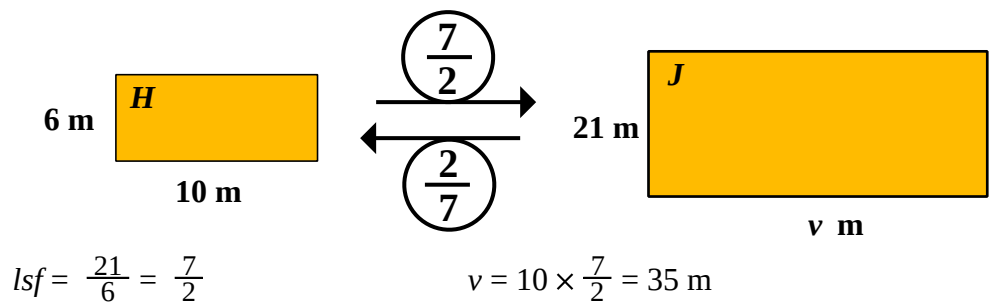
[2 marks]

Answer 5



[2 marks]

Answer 6



[2 marks]

Answer 7

$$9 \times \frac{7}{3} = 21 \text{ cm}$$

Answer 8

$$40 \times \frac{4}{5} = 32 \text{ cm}$$

Answer 9

44 cm by 99 cm

[2, 2, 2 marks]

Answer 10

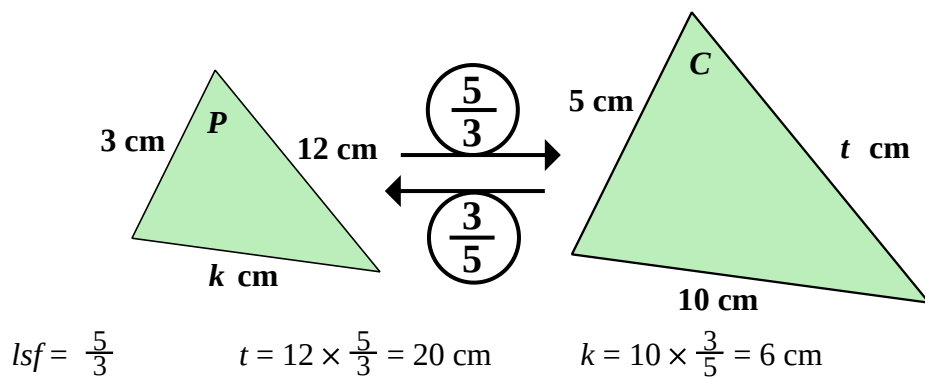
6 cm by 9 cm

Answer 11

$$\frac{25}{15} = \frac{5}{3}$$

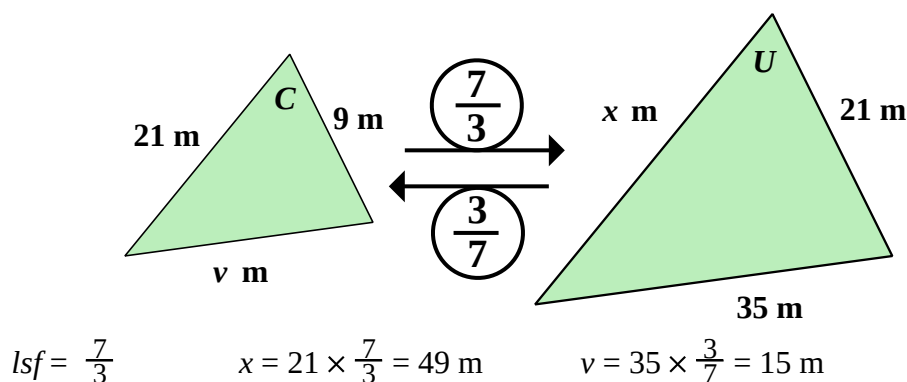
[2, 2 marks]

Answer 12



[3 marks]

Answer 13



[3 marks]

Answer 14

$$lsf = \frac{27}{6} = \frac{9}{2}$$

$$height = 4 \times \frac{9}{2} = 18 \text{ cm}$$

[2 marks]

Answer 15

(i) No (ii) $\frac{12}{8} \neq \frac{15}{9}$

[1, 1 marks]

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Teachers may obtain detailed worked solutions to the exercises by email from MHHShrewsbury@Gmail.com