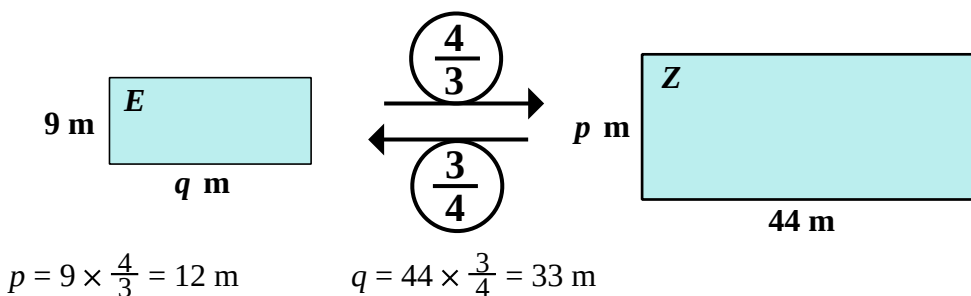


6.2 Answers

GCSE Mathematics Ratio and Similarity

Answer 1



$$p = 9 \times \frac{4}{3} = 12 \text{ m}$$

$$q = 44 \times \frac{3}{4} = 33 \text{ m}$$

[2 marks]

Answer 2

$$28 \times \frac{7}{4} = 49 \text{ cm}$$

Answer 3

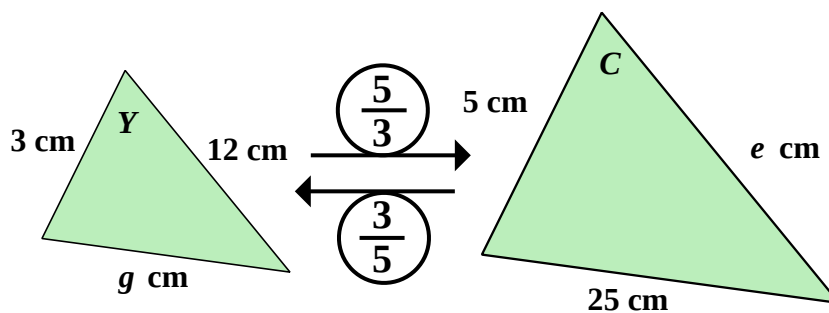
$$90 \times \frac{7}{15} = 42 \text{ cm}$$

Answer 4

$$30 \text{ m by } 37.5 \text{ m}$$

[2, 2, 2 marks]

Answer 5



$$e = 12 \times \frac{5}{3} = 20 \text{ cm}$$

$$g = 25 \times \frac{3}{5} = 15 \text{ cm}$$

[3 marks]

Answer 6

(i) $\frac{9}{2}$

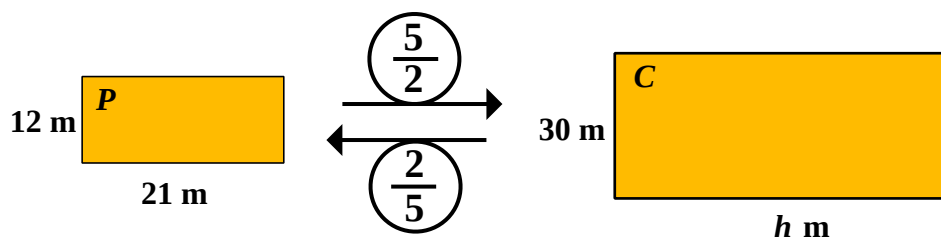
(ii) $\frac{5}{3}$

(iii) $\frac{7}{3}$

(iv) $\frac{1}{3}$

[4 marks]

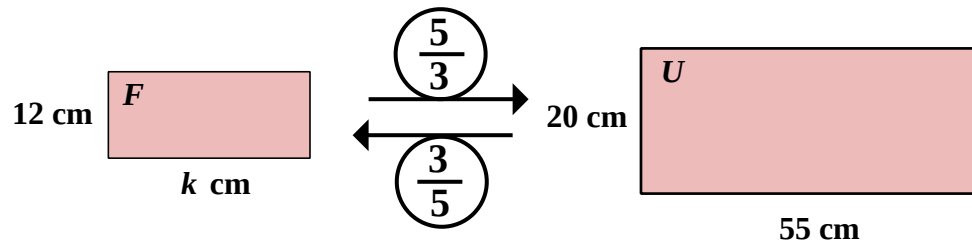
Answer 7



$$h = 21 \times \frac{5}{2} = 52.5 \text{ m}$$

[2 marks]

Answer 8



$$k = 55 \times \frac{3}{5} = 33 \text{ cm}$$

[2 marks]

Answer 9

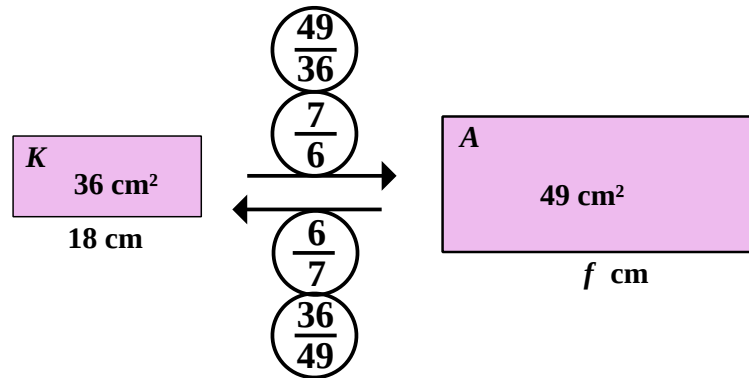
(i) $\frac{49}{36}$

(ii) $\frac{8}{5}$

(iii) $\frac{4}{3}$

[3 marks]

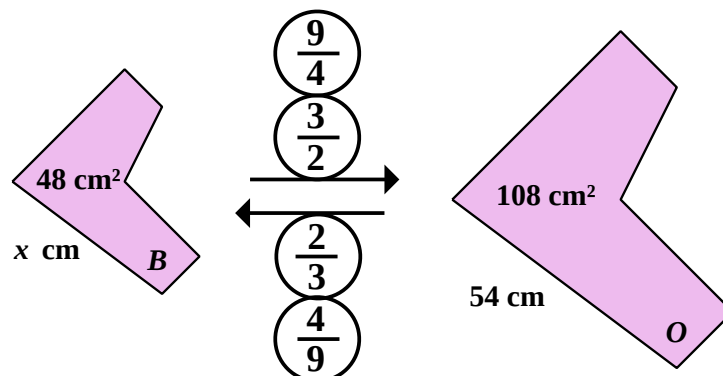
Answer 10



$$f = 18 \times \frac{7}{6} = 21 \text{ cm}$$

[3 marks]

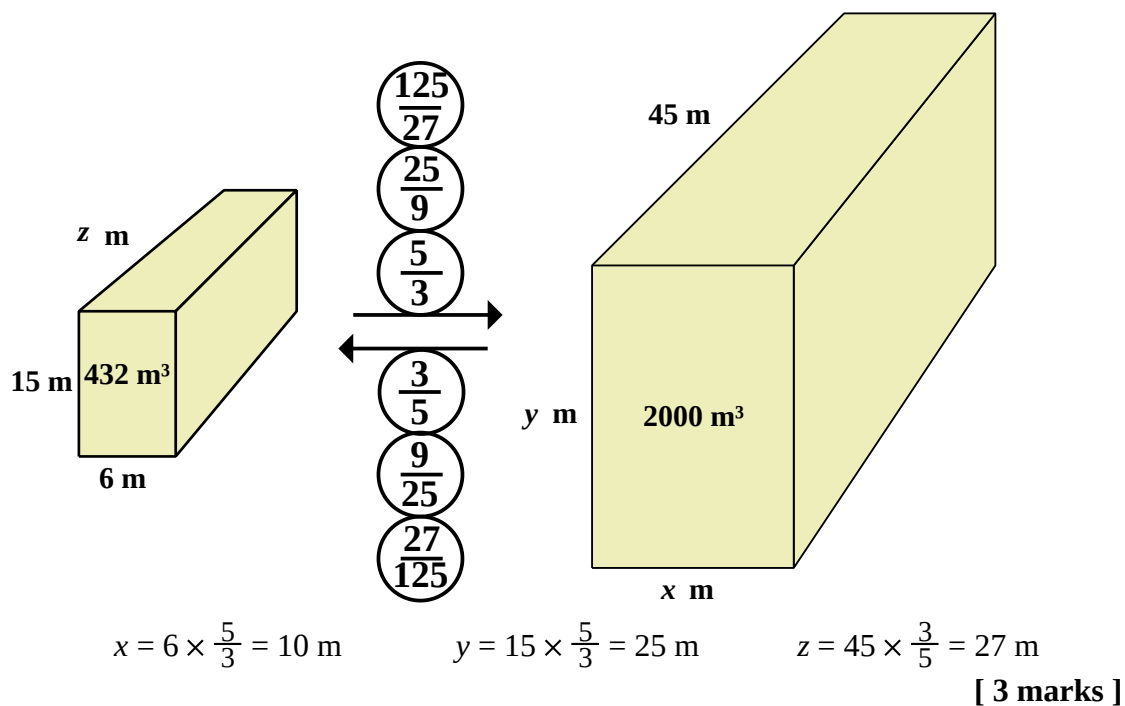
Answer 11



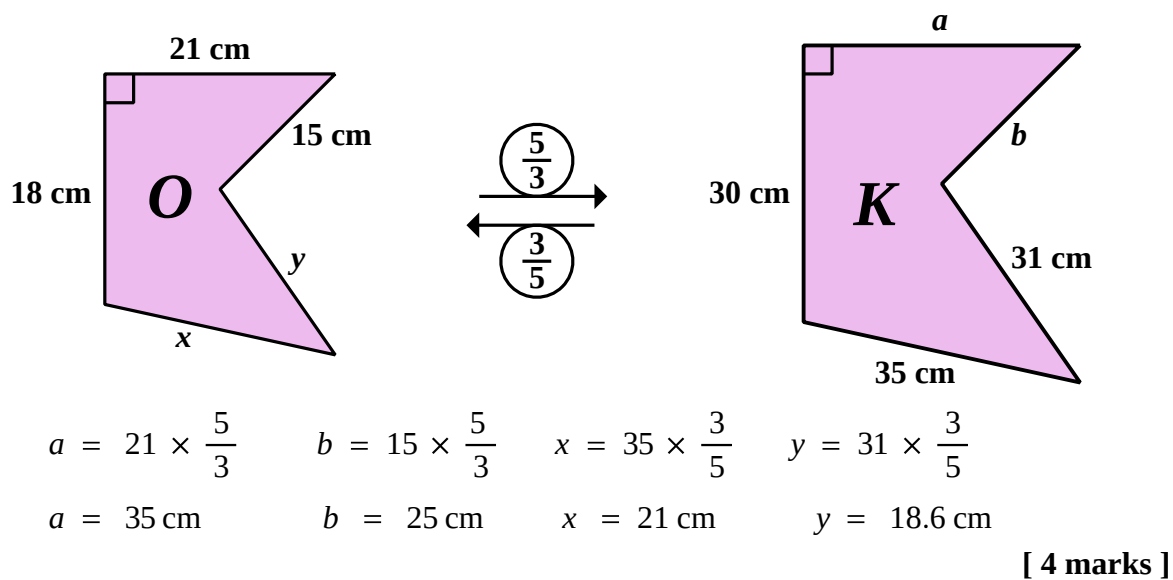
$$x = 54 \times \frac{2}{3} = 36 \text{ cm}$$

[3 marks]

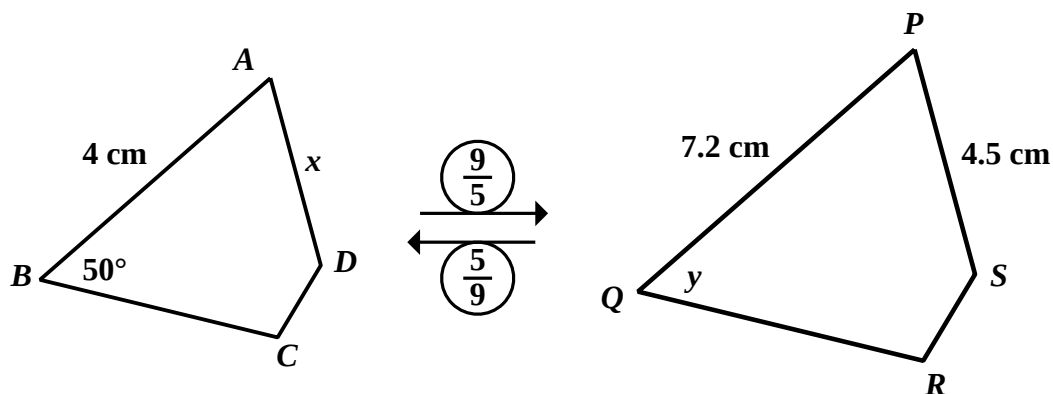
Answer 12



Answer 13



Answer 14

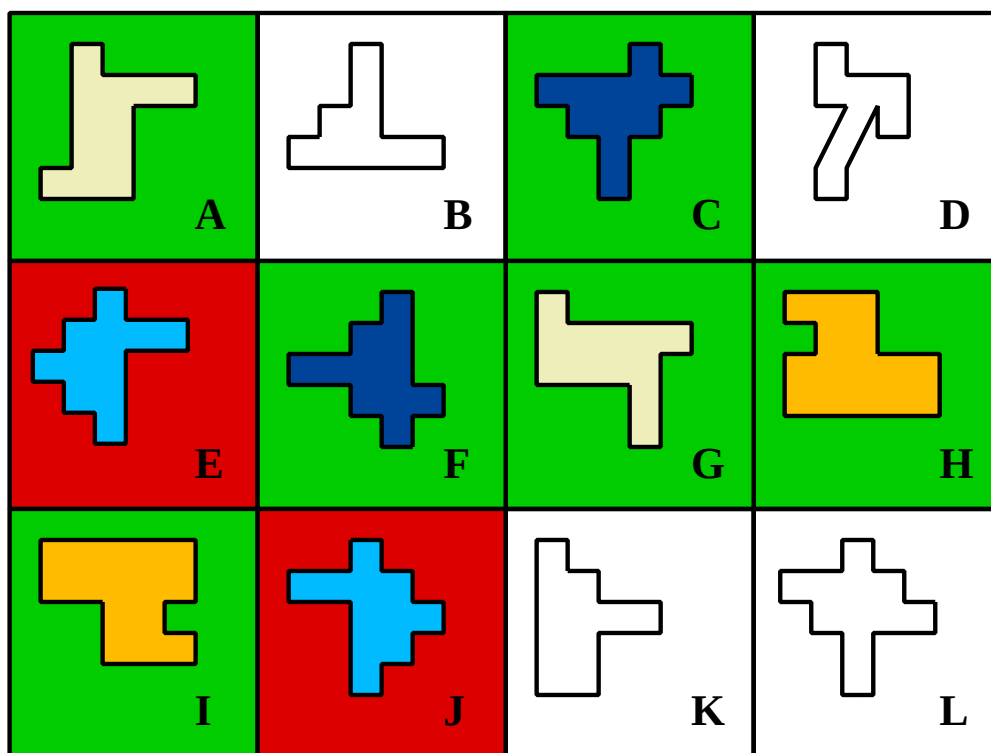


$$x = 4.5 \times \frac{5}{9} \quad y = 50^\circ$$

$$x = 2.5 \text{ cm}$$

[3 marks]

Answer 15



[6 marks]