



Use scale factors to determine missing lengths

1

Complete the equivalent fraction by finding the missing denominator

$$\frac{1}{4} = \frac{3}{?}$$

(Diagram showing multiplication by 3: $1 \times 3 = 3$ and $4 \times 3 = ?$)

A 9

B 16

C 11

D 13

E 8

F 12

2

Complete the equivalent fraction by finding the missing denominator

$$\frac{3}{6} \times \frac{5}{5} = \frac{15}{?}$$

A 28

B 26

C 34

D 33

E 30

F 29

3

Solve for the length of line m

$$r=4$$

$$m=?$$

$$\frac{r}{m} = 0.5$$

A m = 6

B m = 1

C m = 2

D m = 7

E m = 8

F m = 9

4

Solve for the length of line n

$$n=?$$

$$p=21$$

$$\frac{n}{p} = 0.333$$

A n = 4

B n = 3

C n = 7

D n = 6

E n = 2

F n = 24

5

Solve for the length of line w

$$w=?$$

$$m=4$$

$$\frac{m}{w} = 0.25$$

A w = 13

B w = 18

C w = 12

D w = 20

E w = 16

F w = 2

6

Solve for the length of line w

$$w=?$$

$$r=12$$

$$\frac{w}{r} = 0.333$$

A w = 10

B w = 15

C w = 1

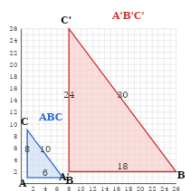
D w = 0

E w = 4

F w = 7

7

What is the scale factor of the dilation from triangle ABC to triangle A'B'C'?



A 2

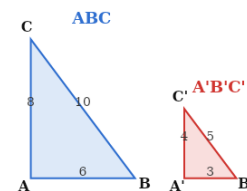
B 1/2

C 3

D 1/3

8

What is the scale factor of the dilation from triangle ABC to triangle A'B'C'?



A 3

B 2

C 1/3

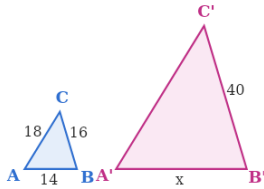
D 1/2



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9

Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



A 35 cm

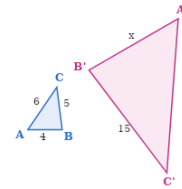
B 38 cm

C 6 cm

D 14 cm

10

Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



A 4 cm

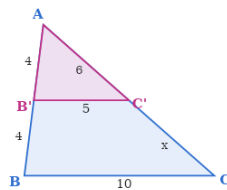
B 1 cm

C 12 cm

D 14 cm

11

Triangle AB'C' is similar to triangle ABC. What is the value of x (in centimetres)?



A 4 cm

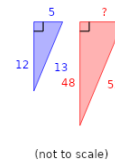
B 5 cm

C 6 cm

D 11 cm

12

Find the length of the missing side given that these are similar triangles



(not to scale)

A 30

B 22

C 2

D 20

E 4

F 32