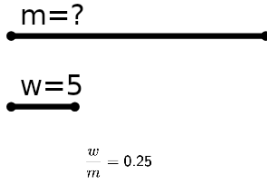
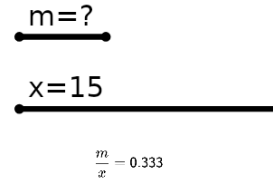
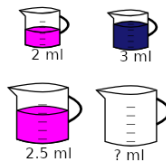




Use indirect measurement with similar triangles

**1**Solve for the length of line m A $m = 18$ B $m = 20$ C $m = 1$ D $m = 21$ E $m = 17$ F $m = 22$ **2**Solve for the length of line m A $m = 5$ B $m = 3$ C $m = 0$ D $m = 2$ E $m = 10$ F $m = 15$ **3**

This paint color needs 3 ml of blue for every 2 ml of magenta. How much blue is needed if you have 2.5 ml of magenta



A 4 ml

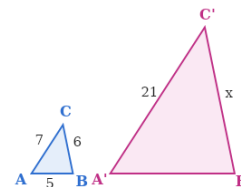
B 3.75 ml

C 4.75 ml

D 5.25 ml

4

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



A 18 cm

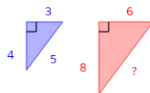
B 2 cm

C 6 cm

D 20 cm

5

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



(not to scale)

A 16

B 10

C 12

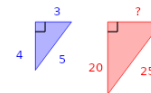
D 17

E 4

F 3

6

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



(not to scale)

A 5

B 23

C 14

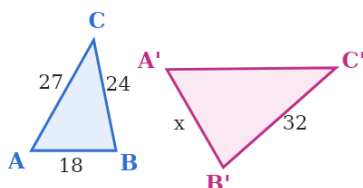
D 15

E 19

F 17

7

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



A 18 cm

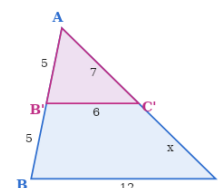
B 24 cm

C 14 cm

D 26 cm

8

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



A 7 cm

B 13 cm

C 5 cm

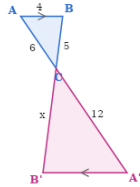
D 6 cm



Use indirect measurement with similar triangles

9

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



A 2 cm

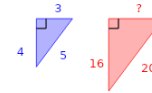
B 11 cm

C 10 cm

D 5 cm

10

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



(not to scale)

A 19

B 20

C 9

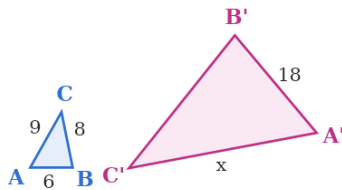
D 12

E 2

F 5

11

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



A 21 cm

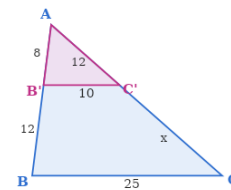
B 9 cm

C 3 cm

D 27 cm

12

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



A 15 cm

B 12 cm

C 18 cm

D 22 cm