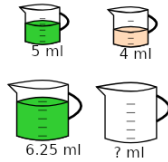




# Apply proportional reasoning to similar triangles

**1**

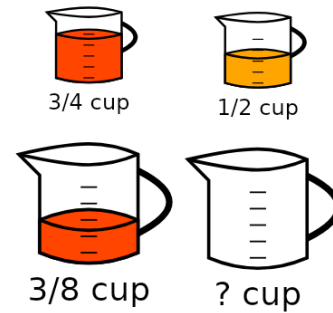
This smoothie needs 4 ml of peach for every 5 ml of lime. How much peach is needed if you have 6.25 ml of lime



- A 6 ml      B 3.75 ml      C 5 ml      D 6.75 ml

**2**

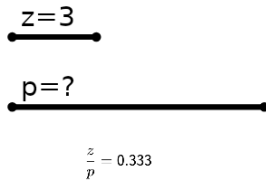
This sauce needs  $\frac{1}{2}$  cup of mustard for every  $\frac{3}{4}$  cup of ketchup. How many cups of mustard is needed if you have  $\frac{3}{8}$  cup of ketchup



- A  $\frac{1}{4}$  cup      B  $\frac{7}{19}$  cup  
C  $\frac{7}{48}$  cup      D  $2\frac{1}{3}$  cup

**3**

Solve for the length of line p

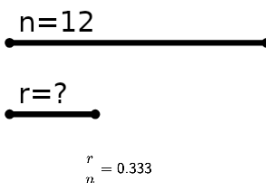


$$\frac{z}{p} = 0.333$$

- A p = 6      B p = 2      C p = 8  
D p = 9      E p = 0      F p = 7

**4**

Solve for the length of line r

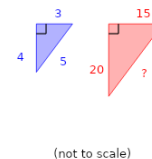


$$\frac{r}{n} = 0.333$$

- A r = 10      B r = 8      C r = 1  
D r = 4      E r = 7      F r = 2

**5**

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

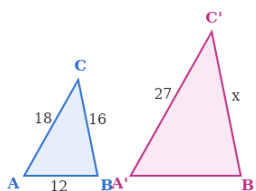


(not to scale)

- A 17      B 25      C 31  
D 11      E 41      F 21

**6**

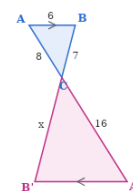
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



- A 16 cm      B 24 cm      C 25 cm      D 11 cm

**7**

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



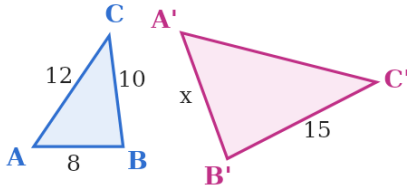
- A 15 cm      B 14 cm      C 7 cm      D 4 cm



## Apply proportional reasoning to similar triangles

**8**

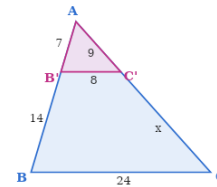
Triangle ABC is similar to triangle A'B'C'. What is the value of  $x$  (in centimetres)?



- |        |         |         |        |
|--------|---------|---------|--------|
| A 8 cm | B 12 cm | C 13 cm | D 5 cm |
|--------|---------|---------|--------|

**9**

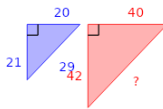
Triangle AB'C' is similar to triangle ABC. What is the value of  $x$  (in centimetres)?



- |         |         |         |        |
|---------|---------|---------|--------|
| A 14 cm | B 16 cm | C 18 cm | D 9 cm |
|---------|---------|---------|--------|

**10**

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

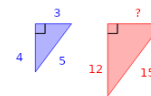


(not to scale)

- |      |      |       |
|------|------|-------|
| A 58 | B 73 | C 53  |
| D 83 | E 33 | F 103 |

**11**

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

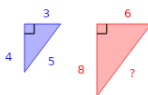


(not to scale)

- |      |      |      |
|------|------|------|
| A 9  | B 15 | C 1  |
| D 16 | E 11 | F 13 |

**12**

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



(not to scale)

- |      |      |      |
|------|------|------|
| A 19 | B 2  | C 16 |
| D 13 | E 10 | F 12 |