2.5

Similar Figures

What are Proportions?

Proportions are EQUAL RATIOS

$$\frac{3}{5} = \frac{6}{10}$$

Cross Products

How can we tell if two ratios are proportional?

$$\frac{4}{6} = \frac{6}{9}$$

Using Cross Products to Solve Proportions

1) $\frac{x}{25} = \frac{6}{10}$

Using Cross Products to Solve Proportions

2) $\frac{2}{9} = \frac{3}{d}$

Using Cross Products to Solve Proportions

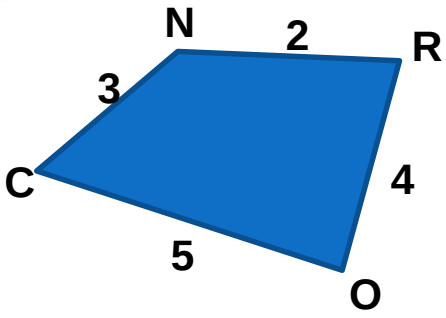
Solve for the missing variable.

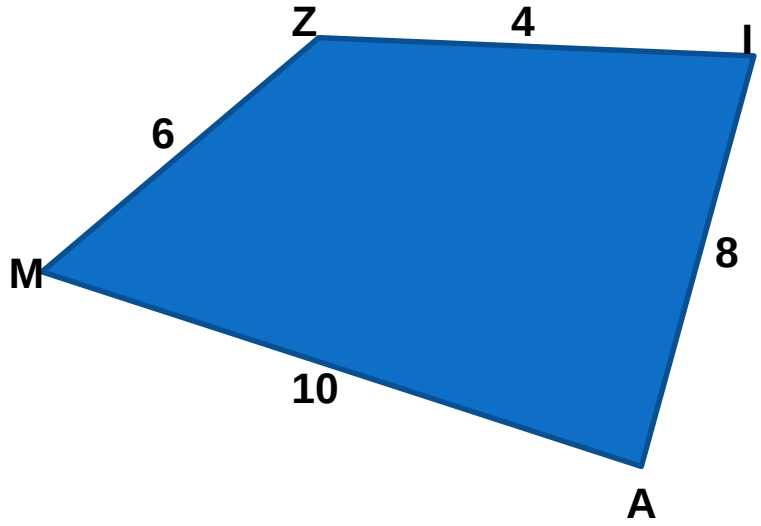
3) $\frac{b}{8} = \frac{15}{20}$

4) $\frac{10}{a} = \frac{15}{18}$

Similarity

$CORN \sim MAIZ$

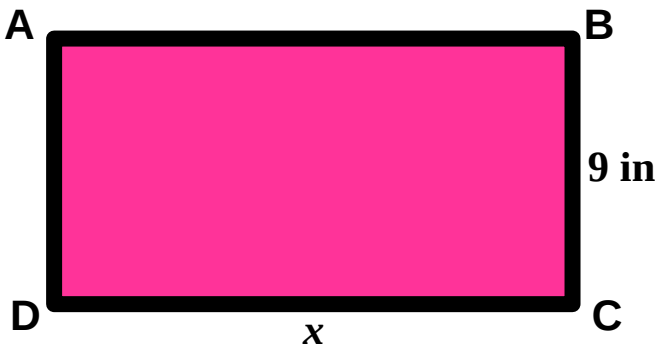


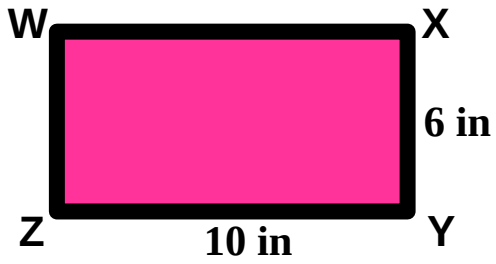


List 3 properties of similar shapes:

- _____
- _____
- _____

FIND MISSING SIDES

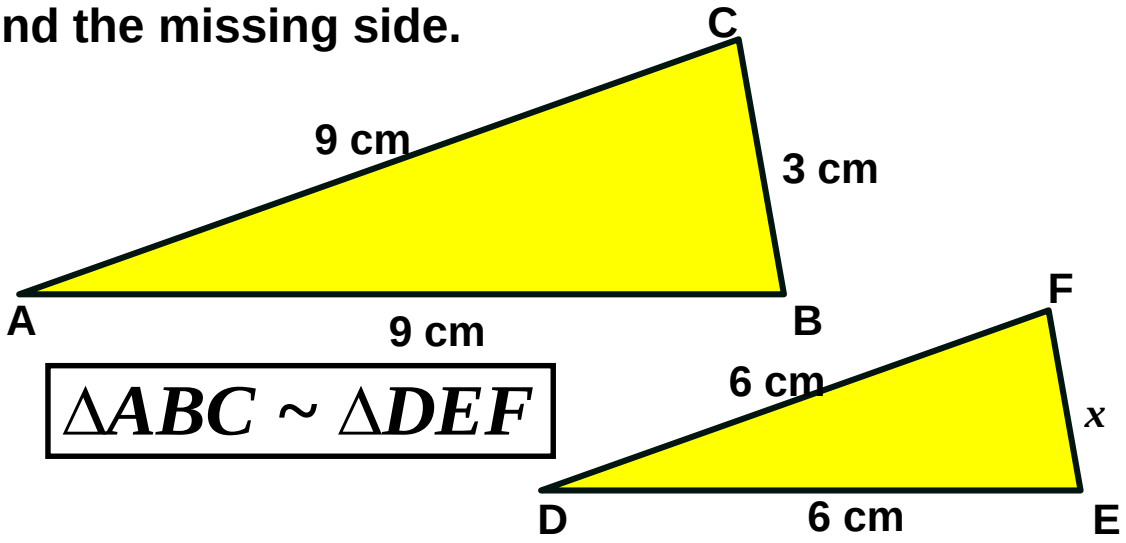




$ABCD \sim WXYZ$

PRACTICE

Find the missing side.

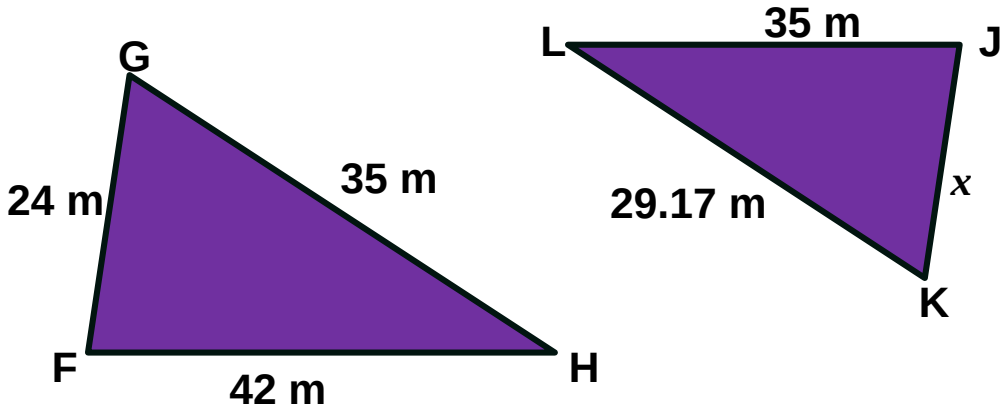


$\Delta ABC \sim \Delta DEF$

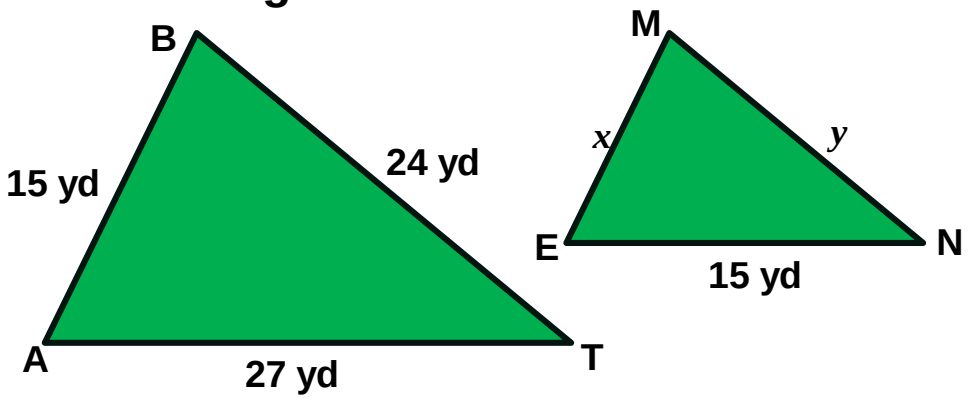
PRACTICE

$\Delta FGH \sim \Delta JKL$

Find the missing side.



PRACTICE

$\Delta BAT \sim \Delta MEN$

Find the missing sides.