

To test if they are proportional

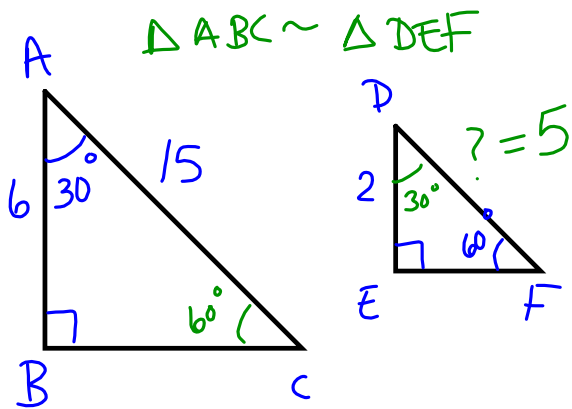
$$\frac{a}{b} = \frac{c}{d}$$

$$ad = bc$$

$$\frac{1}{2} = \frac{5}{10}$$

$$10 = 10 \checkmark$$

Examples to find the missing sides



✗ not drawn to scale.

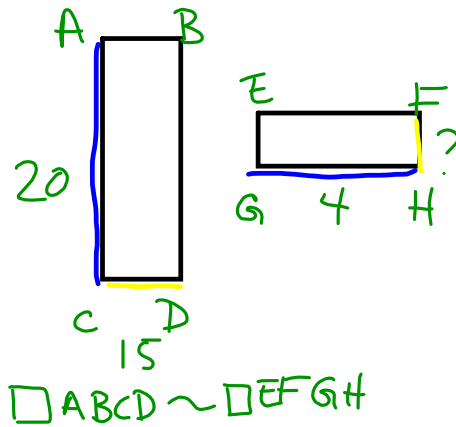
① Angles $\checkmark \cong$

② Sides

$$\frac{6}{2} = \frac{15}{x}$$

$$30 = \frac{15x}{6}$$

$$5 = x$$



$$\frac{20}{4} = \frac{15}{x}$$

$$\frac{60}{20} = \frac{20x}{20}$$

$$3 = x$$