

Write and Solve Proportions

Solve each proportion.

1) $\frac{8}{5} = \frac{p}{10}$

3) $\frac{n}{4} = \frac{10}{3}$

5) $\frac{3}{5} = \frac{x}{7}$

7) $\frac{12}{a} = \frac{8}{6}$

9) $\frac{6}{12} = \frac{5}{n}$

2) $\frac{n}{6} = \frac{8}{4}$

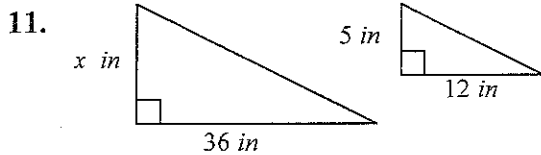
4) $\frac{b}{2} = \frac{12}{3}$

6) $\frac{x}{4} = \frac{12}{10}$

8) $\frac{8}{p} = \frac{4}{2}$

10) $\frac{3}{10} = \frac{x}{5}$

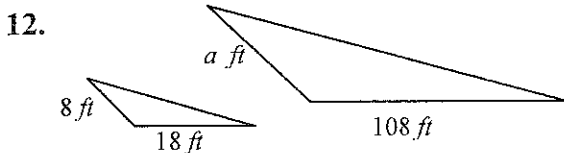
The shapes below are similar. Use proportions to solve for each variable.



Write a proportion $\rightarrow \frac{x}{5} = \frac{36}{12}$

Solve the proportion $\rightarrow 12 \cdot x = 5 \cdot 36$

$12x = \underline{\hspace{2cm}}$



$x = \underline{\hspace{2cm}}$

13. Mike wanted to find the height of his pole barn. He measured the shadow from the pole barn on the ground to be 40 feet. He measured his own shadow on the ground to be 12 feet. Mike is 6 feet tall. Find the height of the pole barn.

