

Geometry Honors Test 8 Review

Simplify the given ratios.

$$\frac{10 \text{ m}}{500 \text{ cm}}$$

$$\frac{24 \text{ in}}{6 \text{ ft}}$$

Solve each proportion.

$$\frac{x+2}{x} = \frac{x}{x-3}$$

$$\frac{x-1}{x+2} = \frac{x-5}{x+6}$$

Find the value of x and y : $\frac{y}{x-9} = \frac{4}{7}$ and $\frac{x+y}{x-y} = \frac{5}{3}$

If $\frac{2}{a} = \frac{3}{b}$, then $\frac{2}{a} = \frac{3+b}{b}$.

Find the exact geometric mean of 10 and 28.

The measures of the angles in a triangle are in the extended ratio of 2 : 3 : 7. Find the measures of the angles.

The perimeter of a rectangle is 48 feet. The ratio of the width to the length is 3:5. Find the length and the width.

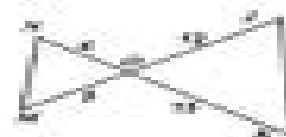
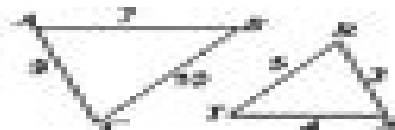
Morgan has made 18 out of 24 free throws. She hopes to make all of her next free throws until her free-throw percentage is 80 or better. How many consecutive free throws will she have to make?

$AB : BC : AC$ is 6 : 8 : 4.

Find the length of each side.



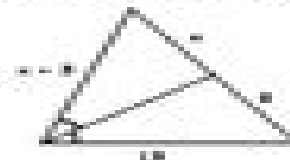
Can the two triangles shown be proved similar? If so, state the similarity and tell which similarity postulate or theorem you would use. If not, write none.



In $\triangle EFG$, $\overline{EH} \parallel \overline{GF}$. Find the measure of $\overline{HG}$.



Using the figure at right, write and solve a proportion to find the value of x .



Geometry Chapter 8 1quiz

SJ Ball



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