

1-27-14
5th Geo

Ch. 7 test tomorrow

$$\textcircled{1} \quad \frac{n}{6} = \frac{6}{9}$$
$$9n = 36$$
$$n = 4$$

$$\textcircled{2} \quad \frac{n+3}{2} = \frac{n-1}{3}$$
$$3(n+3) = 2(n-1)$$
$$3n+9 = 2n-2$$
$$\begin{array}{r} -2n \\ \hline n+9 = -2 \\ -9 \quad -9 \\ \hline n = -11 \end{array}$$

What is $\frac{2}{3} \cdot 6$

$$\frac{2}{3} \cdot \frac{6}{1} = \frac{12}{3} = 4$$

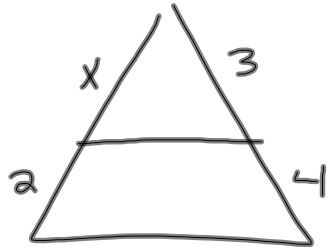
$$\frac{2}{\cancel{3}} \cdot \frac{\cancel{6}^2}{1} = \frac{4}{1} = 4$$

$$\frac{\frac{2}{3}}{n} = \frac{12}{6}$$

$$\frac{2}{3} \cdot \frac{6}{1} = 4$$

$$\frac{12n}{12} = \frac{4}{12}$$

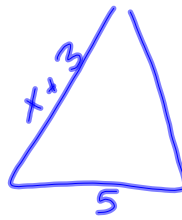
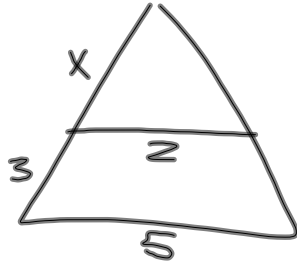
$$n = \frac{4}{3}$$



$$\frac{x}{2} = \frac{3}{4}$$

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

$$x = 1\frac{1}{2}$$



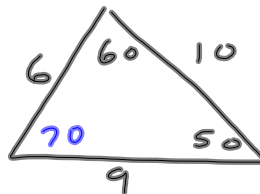
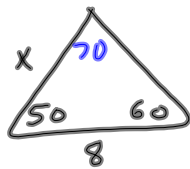
$$\frac{x}{x+3} = \frac{2}{5}$$

$$5x = 2x + 6$$

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

$$3x = 6$$

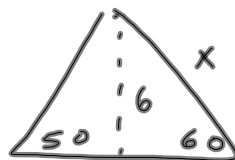
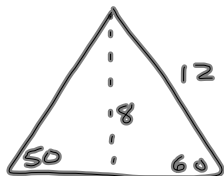
$$x = 2$$



$$\frac{x}{4} = \frac{8}{10}$$

$$10x = 72$$

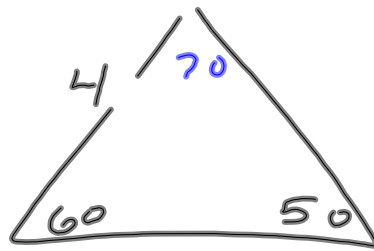
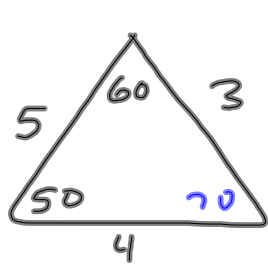
$$x = 7.2$$



$$\frac{12}{x} = \frac{8}{6}$$

$$8x = 72$$

$$x = 9$$



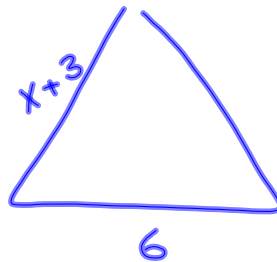
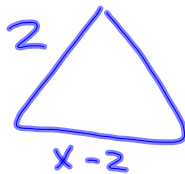
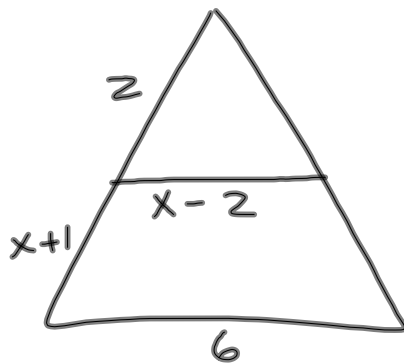
Find \uparrow perimeter

$$\frac{4}{3} = \frac{p}{12}$$

$$\frac{3}{4} = \frac{12}{p}$$

$$3p = 48$$

$$p = 16$$



$$\frac{2}{x+3} = \frac{x-2}{6}$$

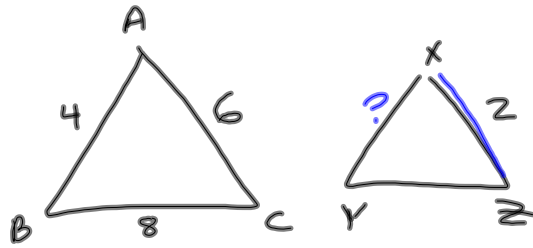
$$(x-2)(x+3) = 12$$

$$x^2 + 3x - 2x - 6 = 12$$

$$x^2 + x - 6 = 12$$

Don't worry

$$x^2 = 25$$

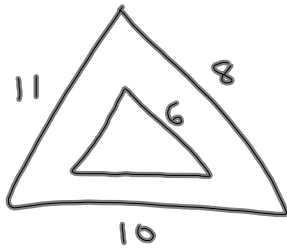


What should XY be to make $\triangle ABC \sim \triangle XYZ$?

$$\frac{2}{6} = \frac{?}{4}$$

$$6x = 8$$

$$x = 1\frac{1}{3}$$

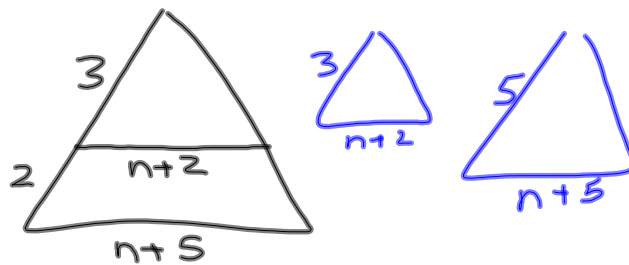


What is perimeter of smaller triangle?

$$\frac{8}{6} = \frac{29}{P}$$

$$\frac{8P}{8} = \frac{174}{8}$$

$$P = 21\frac{3}{4}$$



$$\frac{3}{5} = \frac{n+2}{n+5}$$

$$5n+10 = 3n+15$$

$$2n = 5 \quad n = 2\frac{1}{2}$$

$$1-27-14$$
$$6^1 \cdot 6 \neq 0$$

$$\textcircled{1} \quad \frac{2}{9} = \frac{x}{5}$$
$$\frac{9x}{9} = \frac{10}{9}$$
$$x = 1\frac{1}{9}$$

$$\textcircled{2} \quad \frac{x-3}{5} = \frac{x+1}{4}$$
$$5(x+1) = 4(x-3)$$
$$5x+5 = 4x-12$$
$$\begin{array}{r} x+5 = -12 \\ -5 \quad -5 \\ \hline x = -17 \end{array}$$

$$\frac{2}{3} \times 6 =$$

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$

$$\frac{2}{\cancel{3}_1} \times \frac{\cancel{6}^2}{1} = \frac{4}{1} = 4$$

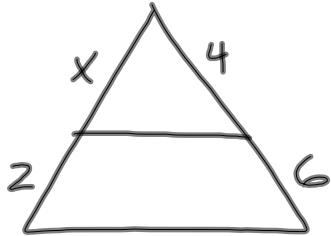
$$\frac{\frac{2}{3}}{n} = \frac{2}{9}$$

$$2n = 6$$
$$n = 3$$

$$\frac{2}{3} \cdot \frac{9}{1} = \frac{18}{3}$$
$$= 6$$

$$\frac{2}{1} \cdot \frac{1}{2} n = 6 \cdot \frac{2}{1}$$

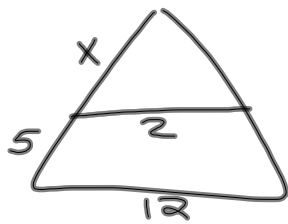
$$n = 12$$



$$\frac{x}{2} = \frac{4}{6}$$

$$\frac{6x}{6} = \frac{8}{6}$$

$$x = 1\frac{1}{3}$$



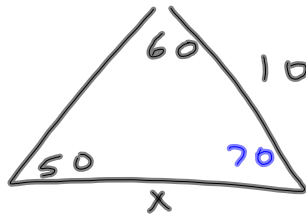
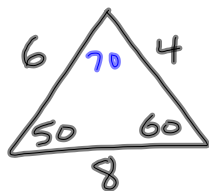
$$\frac{x}{x+5} = \frac{2}{12}$$

$$12x = 2x + 10$$

$$\begin{array}{r} 12x = 2x + 10 \\ - 2x \quad - 2x \\ \hline 10x = 10 \end{array}$$

$$10x = 10$$

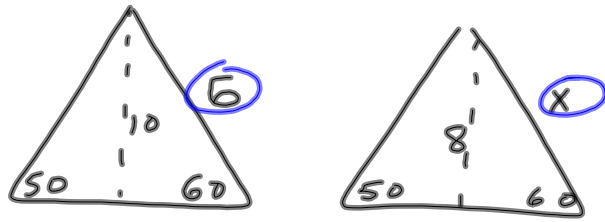
$$x = 1$$



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

$$4x = 60$$

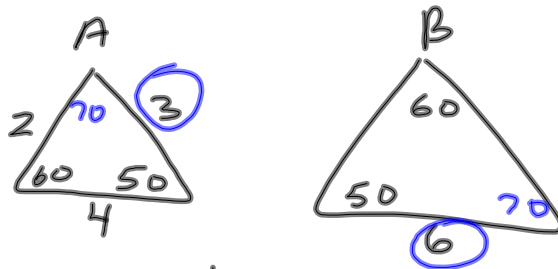
$$x = 15$$



$$\frac{x}{6} = \frac{8}{10}$$

$$10x = 48$$

$$x = 4.8$$

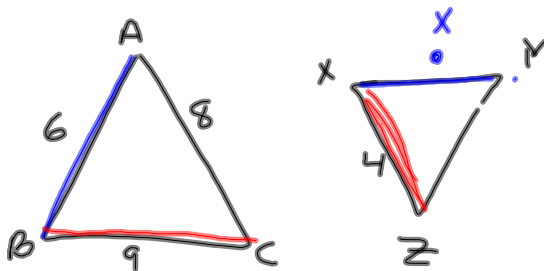


Find $\triangle B$'s perimeter.

$$\frac{3}{6} = \frac{p}{50}$$

$$3p = 54$$

$$p = 18$$

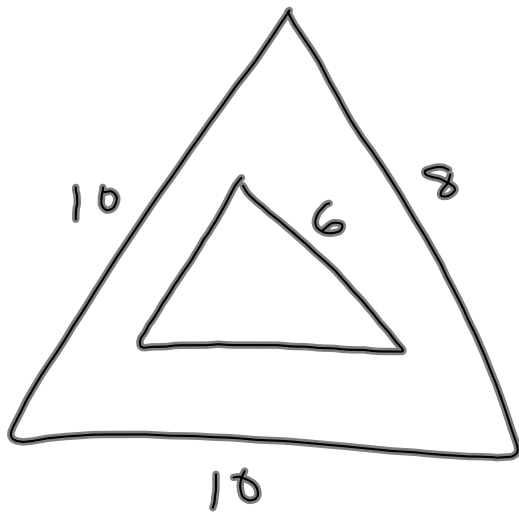


What must XY be to prove $\triangle ABC \sim \triangle YXZ$

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

$$\frac{9x}{9} = \frac{24}{9}$$

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

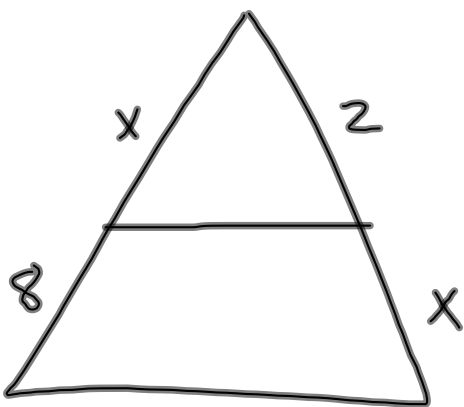


Find small \triangle 's perimeter.

$$\frac{6}{8} = \frac{p}{28}$$

$$\frac{8p}{8} = \frac{168}{8}$$

$$p = 21$$



$$\frac{x}{8} = \frac{2}{x}$$

$$\sqrt{x^2} = \sqrt{16}$$

$$x = 4 \text{ or } -4$$