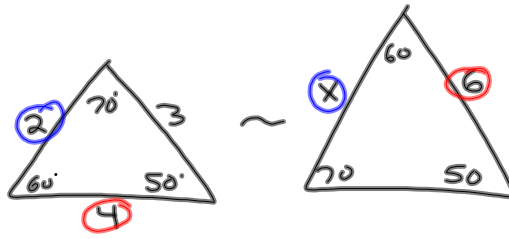


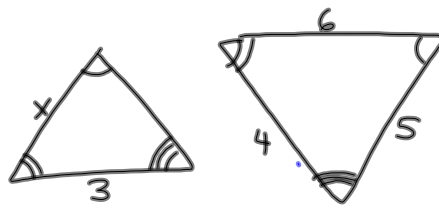
1-9-14
5th Geo



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

$$4x = 12$$

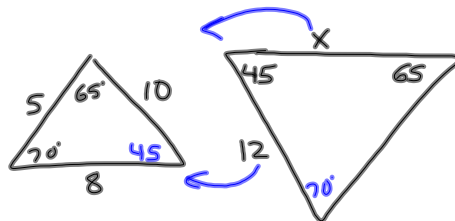
$$x = 3$$



$$\frac{x}{6} = \frac{3}{4}$$

$$\frac{4x}{4} = \frac{18}{4}$$

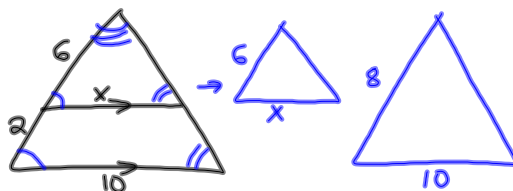
$$x = 4\frac{1}{2}$$



$$\frac{x}{10} = \frac{12}{8}$$

$$\frac{8x}{8} = \frac{120}{8}$$

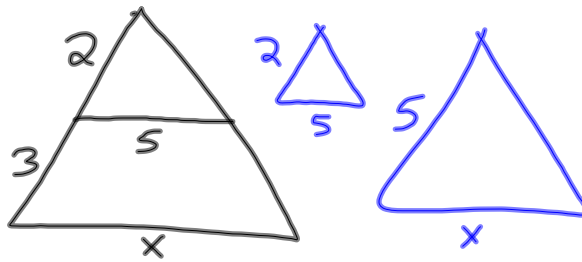
$$x = 15$$



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

$$\frac{8x}{8} = \frac{60}{8}$$

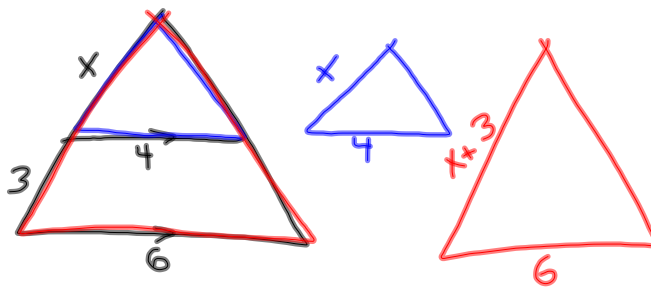
$$x = 7\frac{1}{2}$$



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

$$2x = 25$$

$$x = 12\frac{1}{2}$$



$$\frac{x}{x+3} = \frac{4}{6}$$

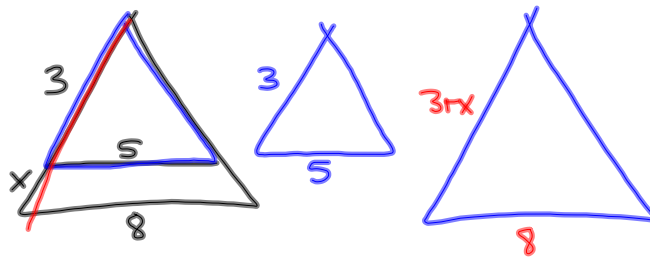
$$6x = 4(x+3)$$

$$6x = 4x + 12$$

$$\begin{array}{r} -4x \quad -4x \\ \hline 2x = 12 \end{array}$$

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

$$x = 6$$



$$\frac{3}{3+x} = \frac{5}{8}$$

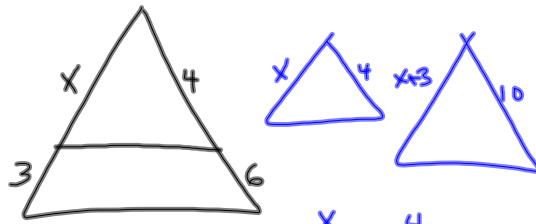
$$5(3+x) = 24$$

$$15 + 5x = 24$$

$$\begin{array}{r} -15 \quad -15 \\ \hline 5x = 9 \end{array}$$

$$5x = 9$$

$$x = 1\frac{4}{5}$$



Better: $\frac{x}{3} = \frac{4}{6}$
 $6x = 12$
 $x = 2$

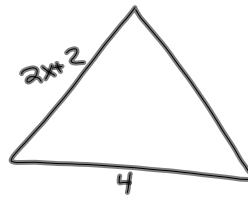
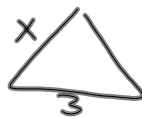
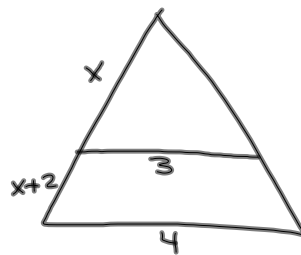
$$\frac{x}{x+3} = \frac{4}{10}$$

$$10x = 4(x+3)$$

$$10x = 4x + 12$$

$$\frac{-4x \quad -4x}{6x = 12}$$

$$x = 2$$



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

$$4x = 3(2x+2)$$

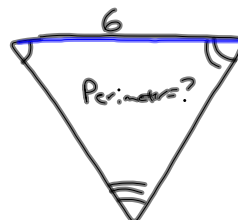
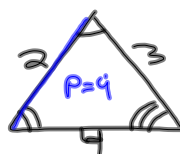
$$4x = 6x + 6$$

$$\frac{-6x \quad -6x}{-2x = 6}$$

$$-2x = 6$$

$x = -3$ (not a real solution)

Domain: $x \geq 0$

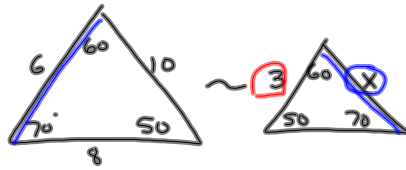


$$\frac{2}{6} = \frac{4}{\text{perimeter}}$$

$$2p = 54$$

$$p = 27$$

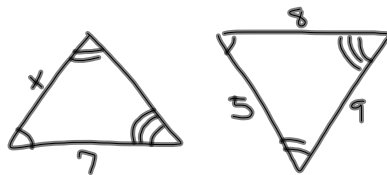
1-9-14
6th Geo



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

$$\frac{10X}{10} = \frac{18}{10}$$

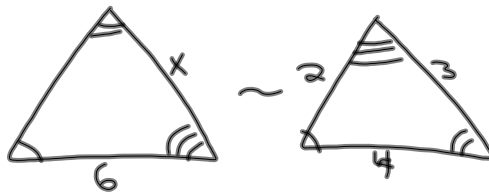
$$X = 1.8$$



$$\frac{X}{5} = \frac{7}{8}$$

$$\frac{8X}{8} = \frac{35}{8}$$

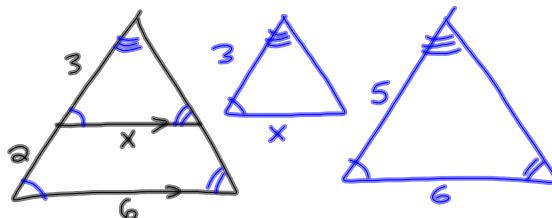
$$X = 4\frac{3}{8} \text{ (4.375)}$$



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

$$2X = 18$$

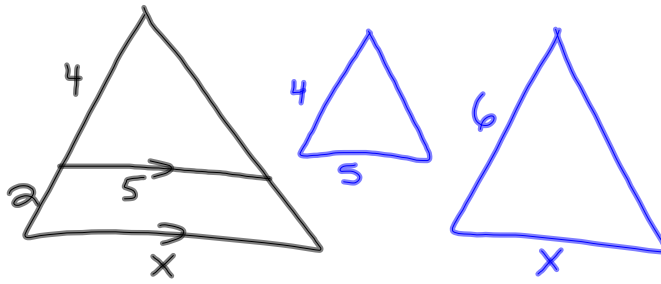
$$X = 9$$



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

$$\frac{5X}{5} = \frac{18}{5}$$

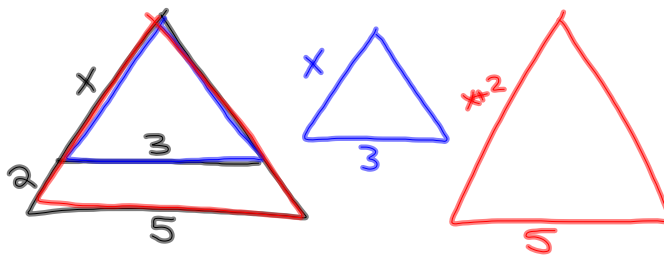
$$X = 3\frac{3}{5} \text{ (3.6)}$$



$$\frac{4}{6} = \frac{5}{X}$$

$$4X = 30$$

$$X = 7.5$$

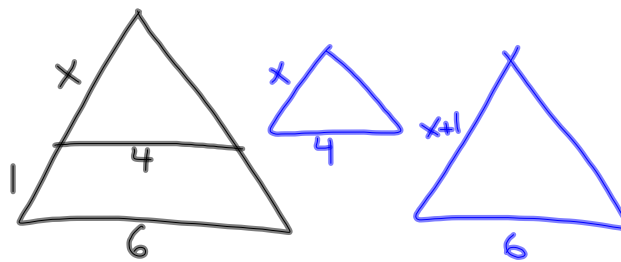


$$\frac{X}{X+2} = \frac{3}{5}$$

$$5X = 3(X+2)$$

$$5X = 3X + 6$$

$$X = 3$$



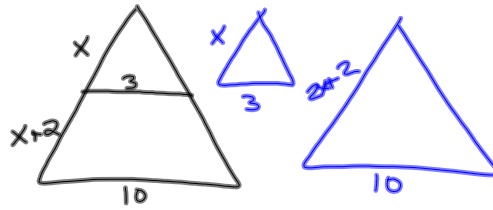
$$\frac{X}{X+1} = \frac{4}{6}$$

$$6X = 4(X+1)$$

$$6X = 4X + 4$$

$$\begin{array}{r} -4X \quad -4X \\ \hline 2X = 4 \end{array}$$

$$X = 2$$



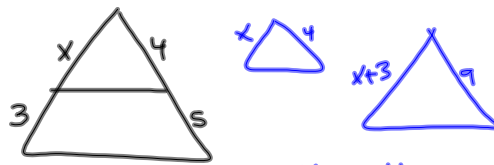
$$\frac{x}{2x+2} = \frac{3}{10}$$

$$10x = 3(2x+2)$$

$$10x = 6x+6$$

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

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



$$\frac{x}{3} = \frac{4}{5}$$

$$5x = 12$$

$$x = 2.4$$

Better

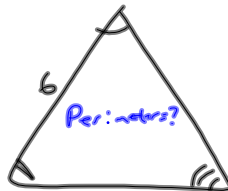
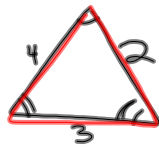
$$\frac{x}{x+3} = \frac{4}{1}$$

$$9x = 4(x+3)$$

$$9x = 4x+12$$

$$\frac{-4x \quad -4x}{5x = 12}$$

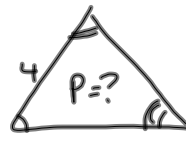
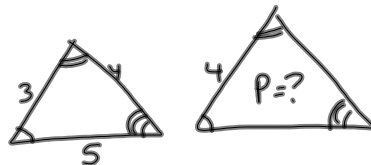
$$x = 2.4$$



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

$$\frac{4p}{4} = \frac{54}{4}$$

$$p = 13\frac{1}{2}$$



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

$$\frac{3p}{3} = \frac{48}{3}$$

$$p = 16$$