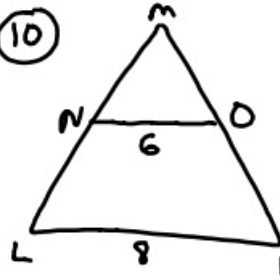


12-4-18 5th Geo

Ch. 7 PT 2

(10)



$\triangle MNO \sim \triangle MLK$

Perimeter of

$$\triangle MNO = 40$$

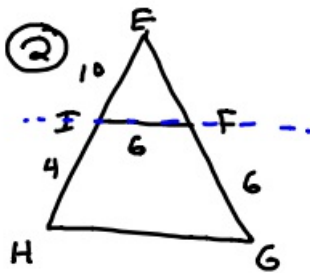


$$\frac{6}{8} = \frac{40}{p}$$

$$\frac{6p}{6} = \frac{320}{6}$$

$$p = 53\frac{1}{3}$$

(2)



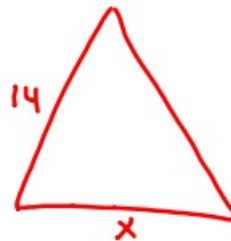
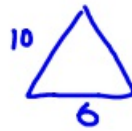
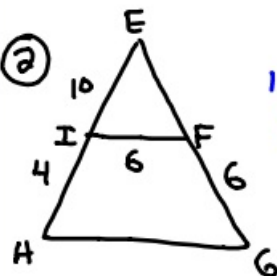
$$EF = ?$$

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

$$4 \cdot EF = 60$$

$$EF = 15$$

(2)



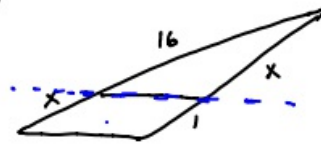
$$HG = ?$$

$$\frac{10}{14} = \frac{6}{x}$$

$$10x = 84$$

$$x = 8.4$$

⑤



$$\frac{16}{x} = \frac{x}{1}$$

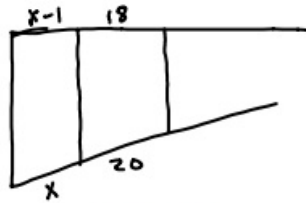
$$x^2 = 16$$

$$x = 4$$

$$7 \cdot 7 = 2 \cdot 7 \quad (7^2)$$

$$x \cdot x = x^2$$

③



$$\frac{18}{x-1} = \frac{20}{x}$$

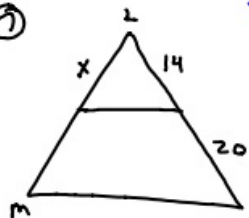
$$20(x-1) = 18x$$

$$\begin{array}{r} 20x - 20 = 18x \\ \underline{20x} \quad \quad - 20x \end{array}$$

$$-20 = -2x$$

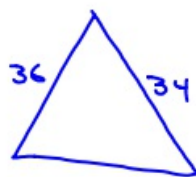
$$x = 10$$

⑦



$$LM = 36$$

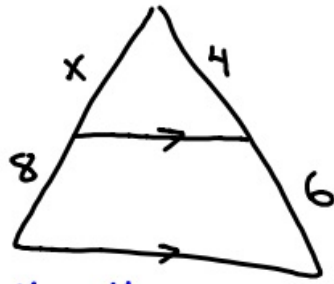
Find x.



$$\frac{x}{36} = \frac{14}{34}$$

$$\frac{34}{34} x = \frac{504}{34}$$

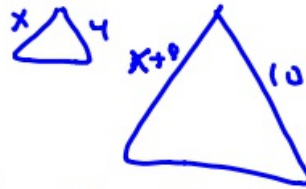
$$x \approx 14.8$$



$$\frac{x}{8} = \frac{4}{6}$$

$$6x = 32$$

$$x = 5\frac{1}{3}$$



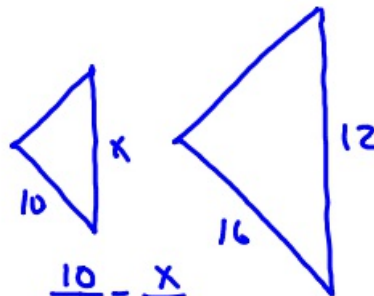
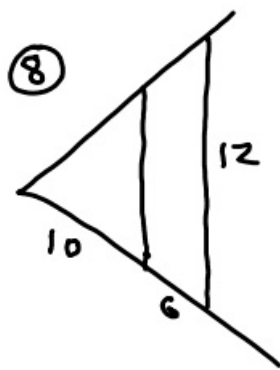
$$\frac{x}{x+8} = \frac{4}{10}$$

$$10x = 4(x+8)$$

$$10x = 4x + 32$$

$$6x = 32$$

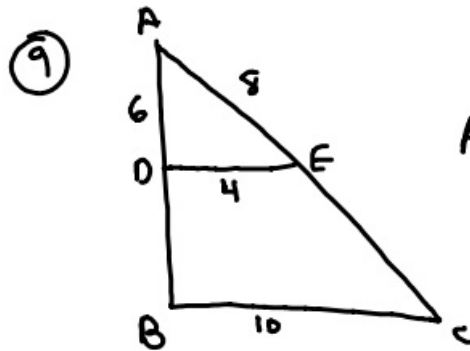
$$x = 5\frac{1}{3}$$



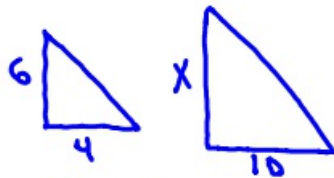
$$\frac{10}{16} = \frac{x}{12}$$

$$\frac{16x}{16} = \frac{120}{16}$$

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



AB = ?

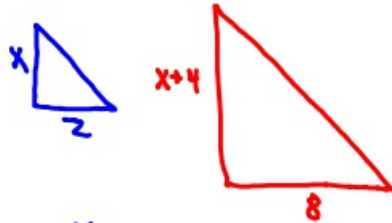
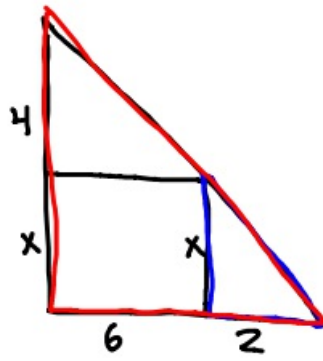


$$\frac{6}{x} = \frac{4}{10}$$

$$4x = 60$$

$$x = 15$$

(11)



$$\frac{x}{x+4} = \frac{2}{8}$$

$$8x = 2(x+4)$$

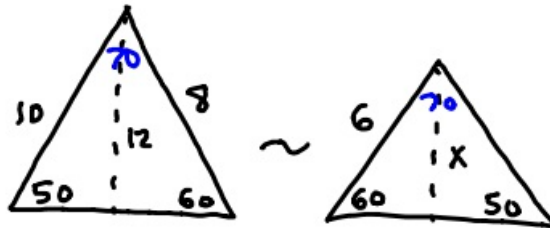
$$8x = 2x + 8$$

$$\begin{array}{r} 8x = 2x + 8 \\ -2x \quad -2x \\ \hline \end{array}$$

$$6x = 8$$

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

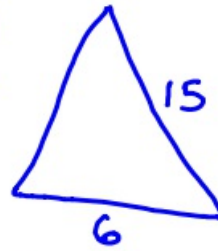
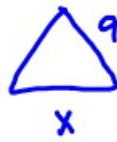
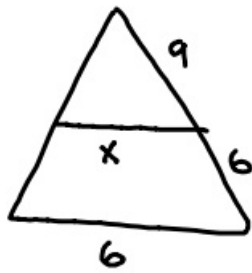
New problem



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

$$8x = 72$$

$$x = 9$$



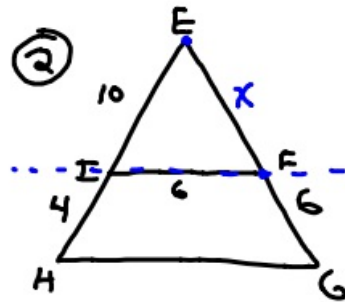
$$\frac{9}{15} = \frac{x}{6}$$

$$15x = 54$$

$$x = 3.6$$

12-4-18 6th Geo

Ch. 7 PT 2

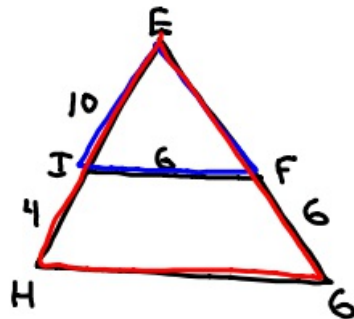


$$EF = ?$$

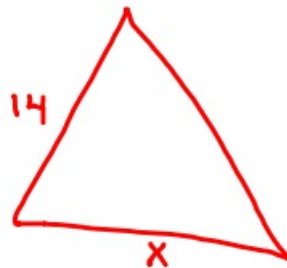
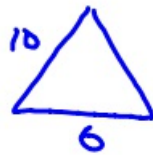
$$\frac{10}{4} = \frac{x}{6}$$

$$4x = 60$$

$$x = 15$$



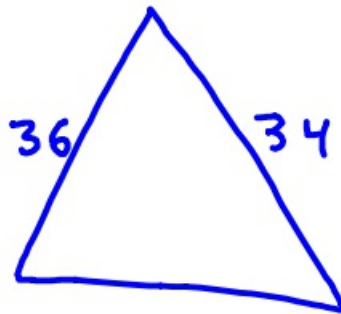
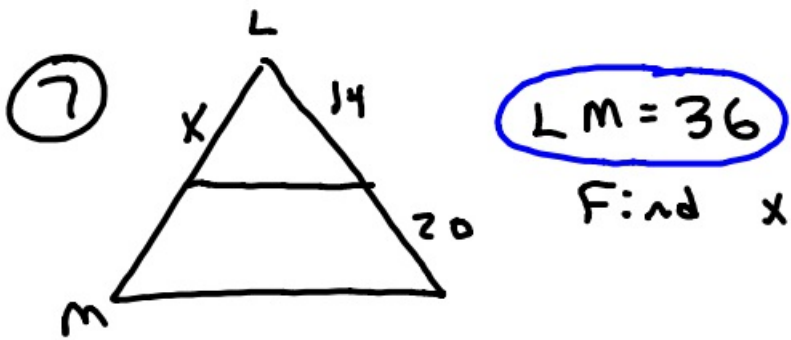
HG



$$\frac{10}{14} = \frac{6}{x}$$

$$10x = 84$$

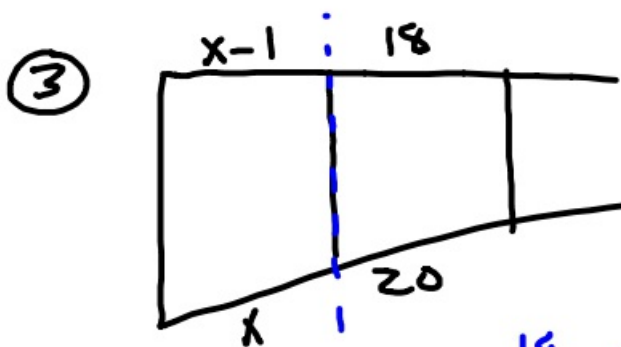
$$x = 8.4$$



$$\frac{x}{36} = \frac{14}{34}$$

$$\frac{34x}{34} = \frac{504}{34}$$

$$x \approx 14.8$$



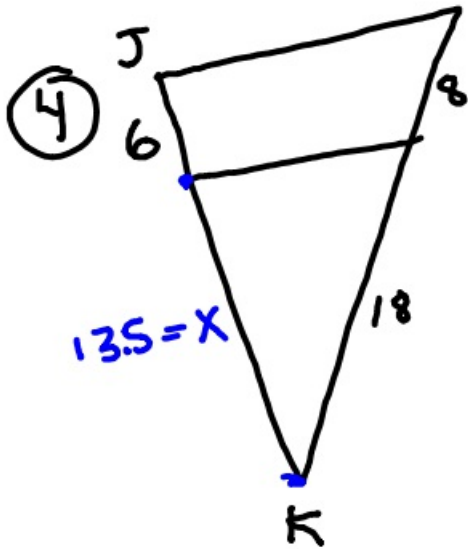
$$\frac{18}{x-1} = \frac{20}{x}$$

$$20(x-1) = 18x$$

$$\begin{array}{r} 20x - 20 = 18x \\ -20x \quad -20x \\ \hline \end{array}$$

$$-20 = -2x$$

$$x = 10$$

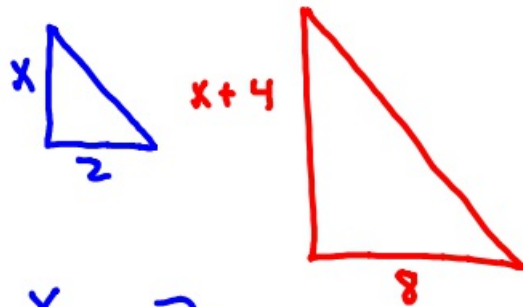
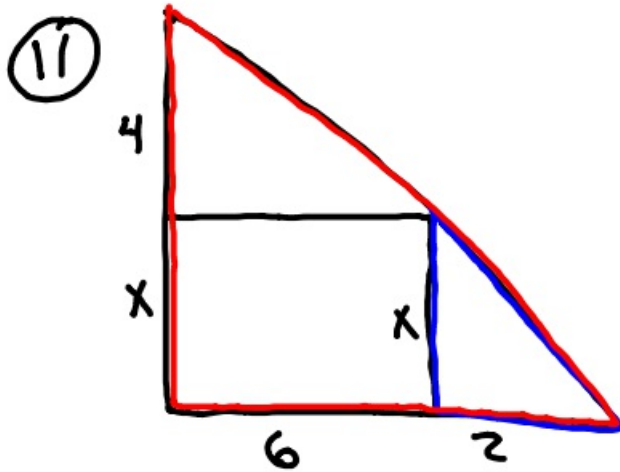


$$\frac{6}{x} = \frac{8}{18}$$

$$8x = 108$$

$$x = 13.5$$

$$JK = 19.5$$



$$\frac{x}{x+4} = \frac{2}{8}$$

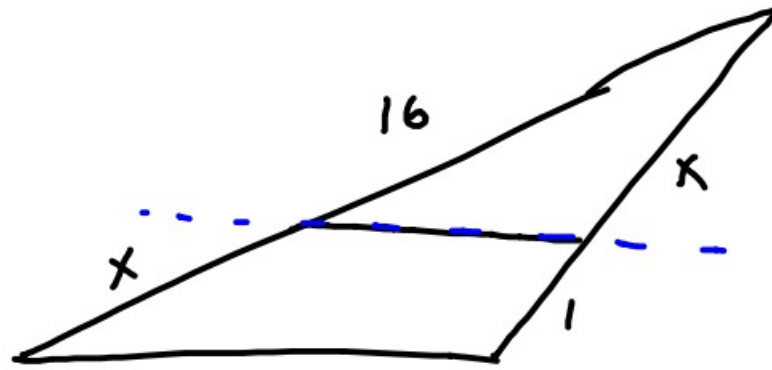
$$8x = 2(x+4)$$

$$8x = 2x + 8$$

$$6x = 8$$

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

⑤



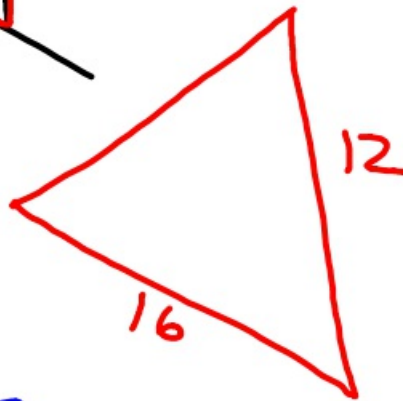
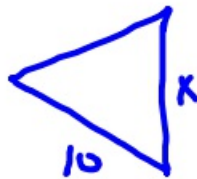
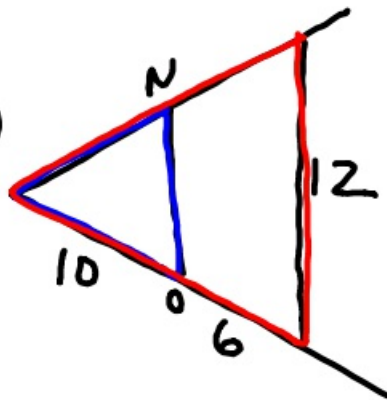
$$\frac{16}{x} = \frac{x}{1}$$

$$x^2 = 16$$

$$x = 4$$

$$\begin{array}{l} x \cdot x \\ \textcircled{x^2} \end{array} \quad \begin{array}{l} 7 \cdot 7 \\ 2 \cdot 7 \text{ or } \textcircled{7^2} \end{array}$$

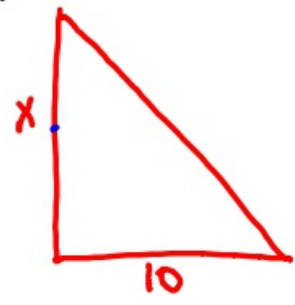
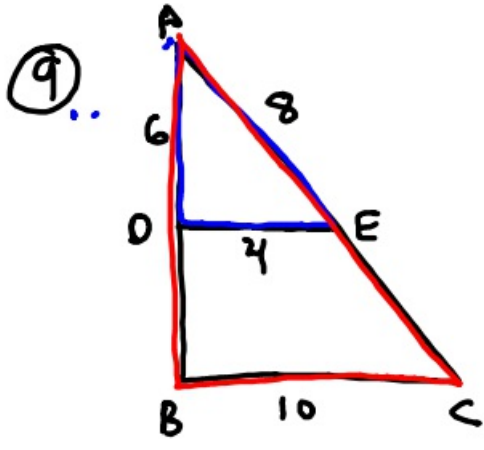
⑧



$$\frac{x}{12} = \frac{10}{16}$$

$$\frac{16x}{16} = \frac{120}{16}$$

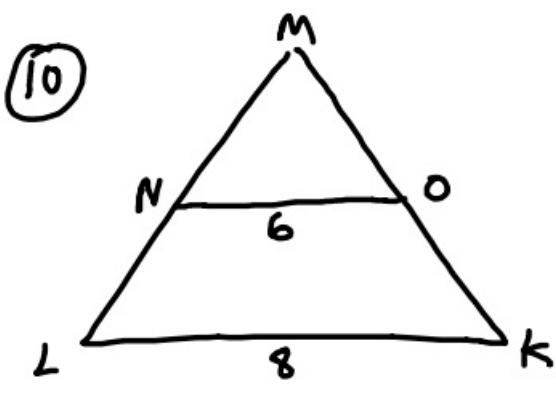
$$x = 7.5$$



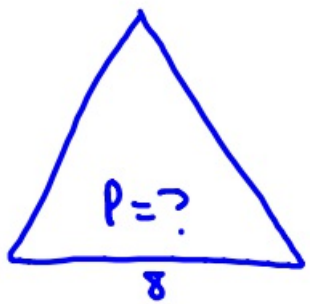
$$\frac{6}{x} = \frac{4}{10}$$

$$4x = 60$$

$$x = 15$$



P of MNO = 40
 P of MLK = ?



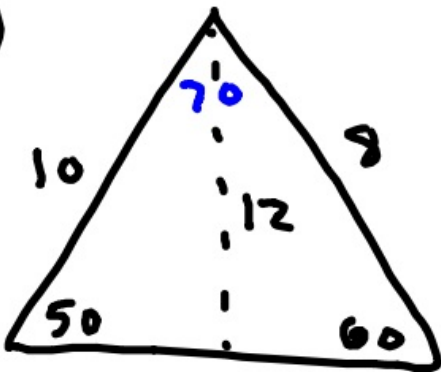
$$\frac{6}{8} = \frac{40}{P}$$

$$6P = 320$$

$$P = 53\frac{1}{3}$$

Extra Practice

①

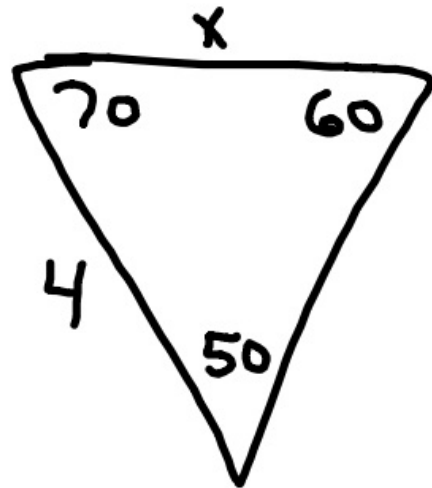
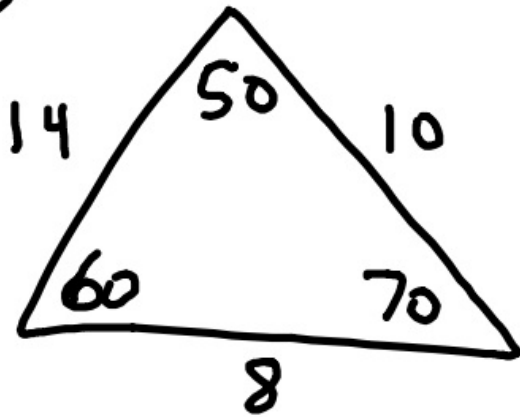


$$\frac{x}{12} = \frac{6}{8}$$

$$8x = 72$$

$$x = 9$$

②



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

$$10x = 32$$

$$x = 3.2$$