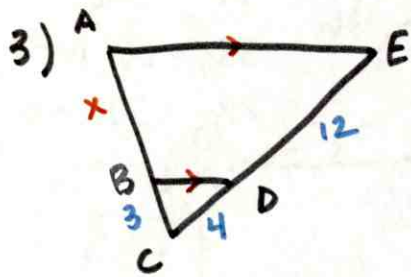


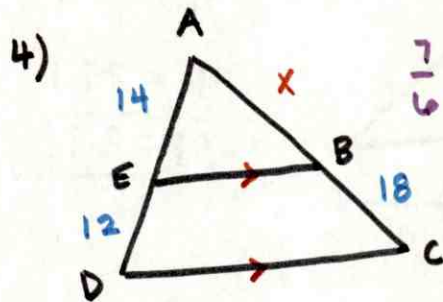
**6.6**



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

$$4x = 36$$

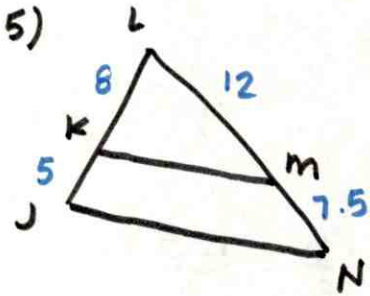
$$\boxed{x=9}$$



$$\frac{7}{6} \frac{14}{12} = \frac{x}{18}$$

$$6x = 126$$

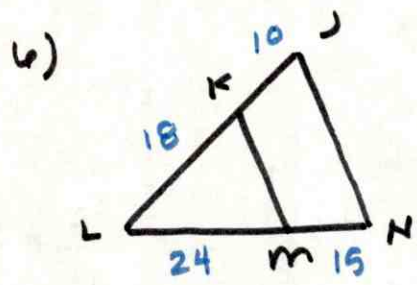
$$\boxed{x=21}$$



$$\frac{8}{5} = \frac{12}{7.5}$$

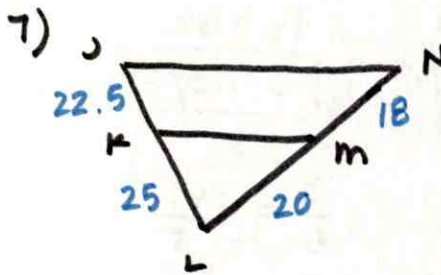
$$60 = 60 \checkmark$$

$$\boxed{\text{yes, } \overline{JM} \parallel \overline{LN}}$$



$$\frac{18}{10} = \frac{24}{15}$$

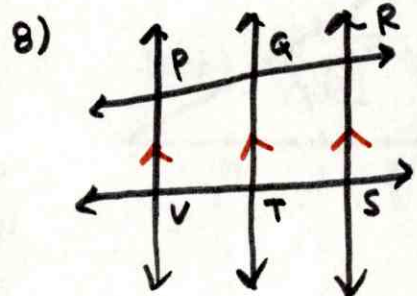
$$\frac{9}{5} = \frac{8}{5} \quad \boxed{\text{NO}}$$



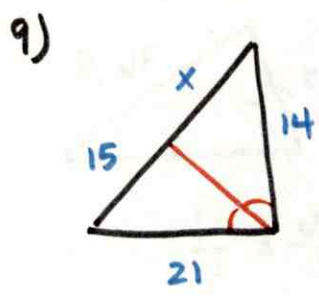
$$\frac{22.5}{25} = \frac{18}{20}$$

$$\frac{9}{10} = \frac{9}{10} \checkmark$$

$$\boxed{\text{yes, } \overline{KM} \parallel \overline{LN}}$$



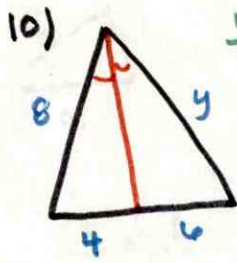
**C**  $\frac{QR}{RS} = \frac{TS}{RS}$



$$\frac{x}{14} = \frac{15}{21} \cdot \frac{6}{7}$$

$$7x = 70$$

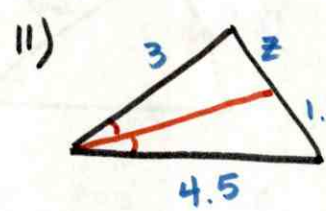
$$\boxed{x=10}$$



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

$$4y = 48$$

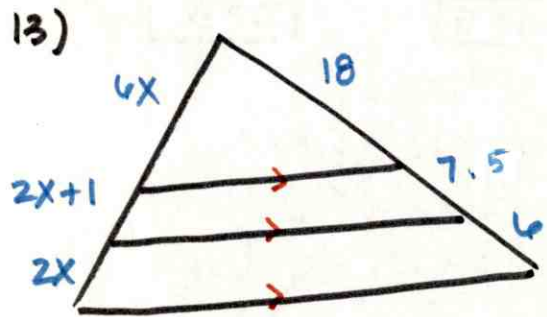
$$\boxed{y=12}$$



$$\frac{z}{3} = \frac{1.5}{4.5}$$

$$4.5z = 4.5$$

$$\boxed{z=1}$$



$$\frac{6x}{2x} = \frac{18}{7.5} \cdot \frac{6}{6}$$

$$12x = 12x$$

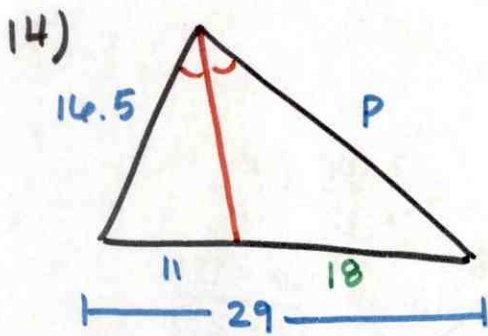
$$\frac{2x+1}{2x} = \frac{7.5}{6}$$

$$6(2x+1) = 2x(7.5)$$

$$12x+6 = 15x$$

$$6 = 3x$$

$$\boxed{x=2} \quad \text{C}$$

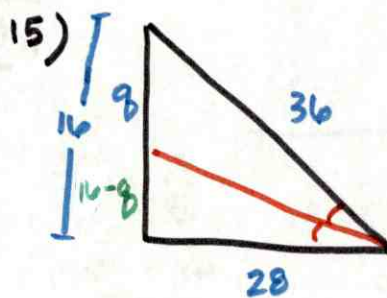


$$29 - 11 = 18$$

$$\frac{16.5}{11} = \frac{P}{18}$$

$$11P = 297$$

$$P = 27$$



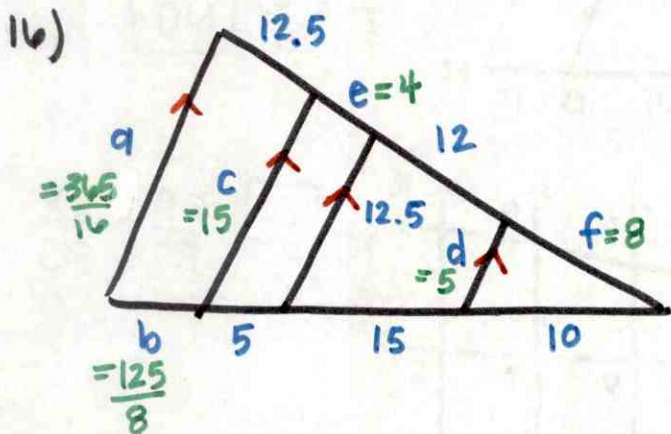
$$\frac{8}{8} = \frac{16-8}{28}$$

$$28 \cdot 8 = 36(16-8)$$

$$28 \cdot 8 = 576 - 36 \cdot 8$$

$$64 \cdot 8 = 576$$

$$8 = 9$$



$$\frac{f}{12} = \frac{10}{18} \cdot \frac{2}{3}$$

$$3f = 24$$

$$f = 8$$

$$\frac{e}{8} = \frac{5}{10}$$

$$10e = 40$$

$$e = 4$$

$$\frac{b}{5} = \frac{12.5}{4}$$

$$4b = 62.5$$

$$b = 125/8$$

$$\frac{d}{12.5} = \frac{8}{20}$$

$$20d = 100$$

$$d = 5$$

$$\frac{c}{5} = \frac{24}{8}$$

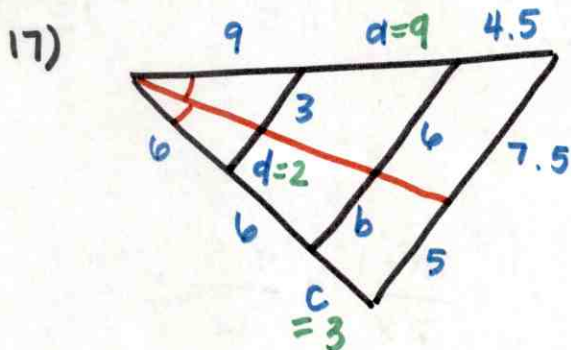
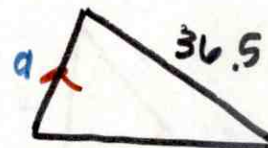
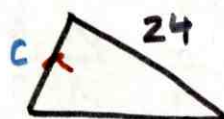
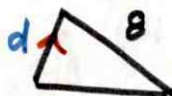
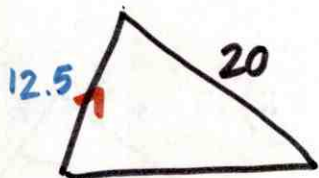
$$8c = 120$$

$$c = 15$$

$$\frac{a}{5} = \frac{36.5}{8}$$

$$8a = 182.5$$

$$a = 365/16$$



$$\frac{d}{6} = \frac{3}{9}$$

$$9d = 18$$

$$d = 2$$

$$\frac{b}{6} = \frac{9}{9}$$

$$6b = 54$$

$$b = 9$$

$$\frac{c}{6} = \frac{9}{4.5}$$

$$9c = 27$$

$$c = 3$$

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

$$3b = 12$$

$$b = 4$$