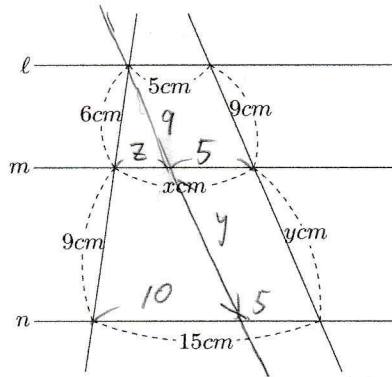


H29.11.13

平行線と線分の比3
 次の図において $l // m // n$ のとき、 x, y の値を求めなさい。



$$6:15 = z:10$$

$$2:5 = z:10$$

$$5z = 20$$

$$z = 4$$

$$x = 4 + 5 = 9$$

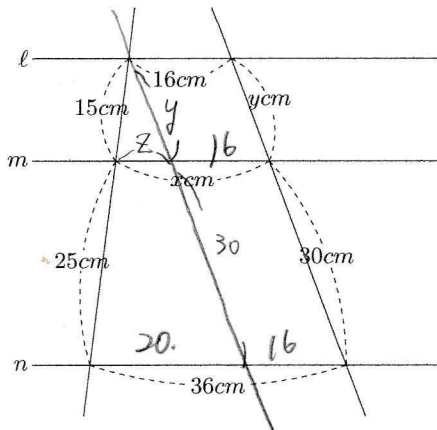
$$\underline{x = 9}$$

$$6:9 = z:y$$

$$2:3 = z:y$$

$$2y = 27$$

$$y = \frac{27}{2}$$



$$15:36 = z:20$$

$$3:8 = z:20$$

$$8z = 60$$

$$z = \frac{15}{2}$$

$$x = \frac{15}{2} + 16$$

$$x = \frac{47}{2}$$

$$\underline{x = \frac{47}{2}}$$

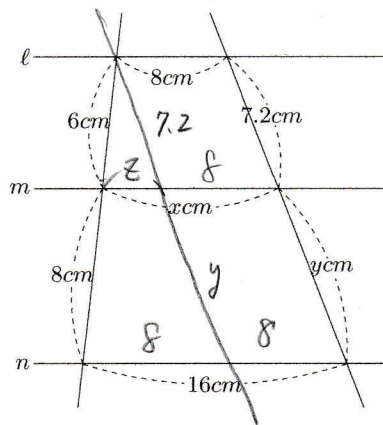
$$15:25 = y:30$$

$$3:5 = y:30$$

$$5y = 90$$

$$y = 18$$

$$\underline{y = 18}$$



$$6:16 = z:8$$

$$3:8 = z:8$$

$$14z = 48$$

$$z = \frac{24}{7}$$

$$x = \frac{24}{7} + 8 = \frac{80}{7}$$

$$\underline{x = \frac{80}{7}}$$

$$6:8 = 7.2:y$$

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$$3:4 = 7.2:y$$

$$3y = 28.8$$

$$y = 9.6$$

$$\underline{y = 9.6}$$