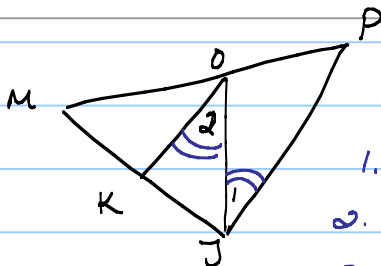


15. $G: \angle 1 \cong \angle 2$

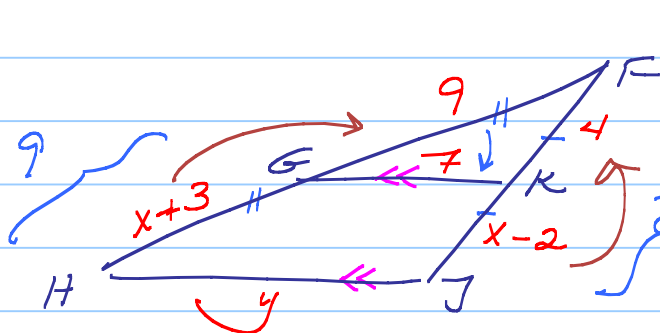
C: $\frac{KM}{JK} = \frac{MO}{OP}$



- S
- $\angle 1 \cong \angle 2$
 - $OK \parallel PJ$
 - $\frac{MK}{KJ} = \frac{MO}{OP}$

- R
- GIVEN
 - ALT. INT. \angle s $\Rightarrow \parallel$
 - SIDE-SPLITTER

20. F: Perimeter $\triangle HJF$



$$\frac{x+3}{9} = \frac{x-2}{4}, \quad 4x+12 = 9x-18$$

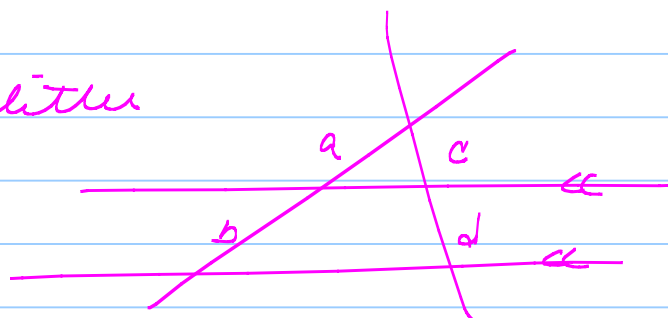
$$30 = 5x$$

$$6 = x$$

GK \rightarrow Midline $\therefore HJ = 14$
 (or) $\sim \triangle$: $\frac{GF}{GK} = \frac{FH}{HJ} \rightarrow \frac{9}{7} = \frac{18}{y}$

$9y = 7 \cdot 18, y = 14$

Side Splitter



$$\frac{a}{b} = \frac{c}{d}$$

Yellow 8.1 & 8.2 Quiz

VOCAB : B D K G F MA E CH

(12) $x:y \Rightarrow \frac{3}{x+5} = \frac{9}{y+15} \Rightarrow 3y+45 = 9x+45$

$$\frac{3y}{9} = \frac{9x}{9}$$

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

13. ratio perimeters = ratio sides

$$(\text{ratio sides})^2 = \text{ratio areas}$$

a 2:3

b $(2:3)^2$ or 4:9

Mean

14 arith $\frac{1+3}{2} = 2$

15 geo $\frac{1}{x} = \frac{x}{3} \rightarrow x^2 = 3 \rightarrow x = \pm\sqrt{3}$

16. "3 is mean prop..." $\frac{x}{3} = \frac{3}{6} \rightarrow 6x = 9 \rightarrow x = \frac{9}{6} = \frac{3}{2}$

17 b, c, d