

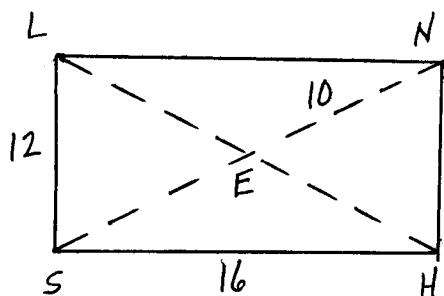
Honors

REVIEW PROBLEMS
(Chapter 8)

FILL IN THE BLANKS WITH always, sometimes or never:

- 1. Two rectangles are _____ similar.
- 2. Two regular polygons are _____ similar
- 3. Two congruent triangles are _____ similar.

QUADRILATERAL LNH5 IS A RECTANGLE. WRITE EACH RATIO IN SIMPLEST FORM:



- 4. $LN : NH$
- 5. $SH : LS : LH$
- 6. $m\angle HNS : m\angle SEH$

ANSWER THE FOLLOWING:

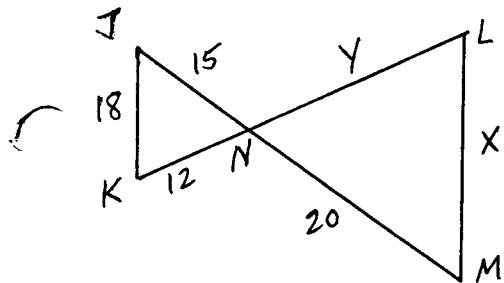
- 7. If $\frac{3}{x} = \frac{7}{2}$ then $b = \underline{\hspace{2cm}}$
- 8. In the proportion $\frac{5}{9} = \frac{m}{k}$, the means are and the extremes are
- 9. If $12x = 8y$, find the ratio of x to y .

FIND THE VALUE(S) OF X :

10. $\frac{x-2}{4} = \frac{x}{8}$

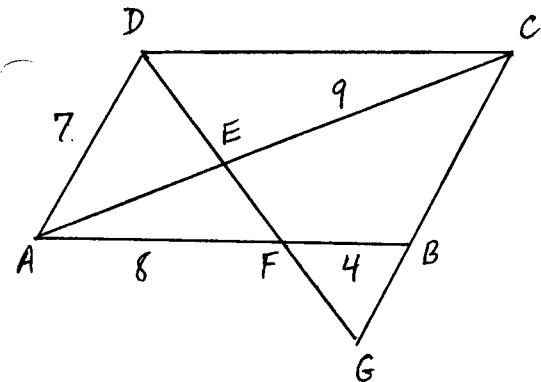
11. $\frac{10}{3x-2} = \frac{5}{x+2}$

IF $\triangle JKN \sim \triangle MLN$, FIND X AND Y :



- 12. $x = \underline{\hspace{2cm}}$
- 13. $y = \underline{\hspace{2cm}}$

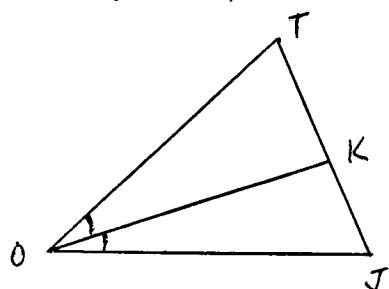
GIVEN $\square DCBA$, FIND AE AND BG:



14. $AE = \underline{\hspace{2cm}}$

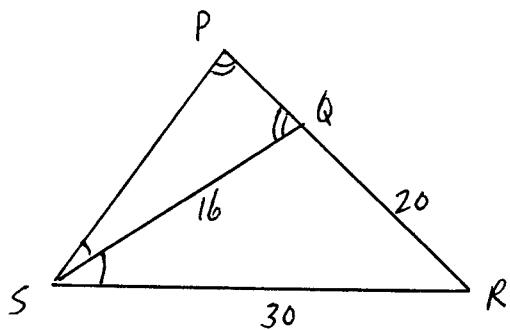
15. $BG = \underline{\hspace{2cm}}$

FIND JK IF OJ = 24, OT = 36
AND JT = 40:



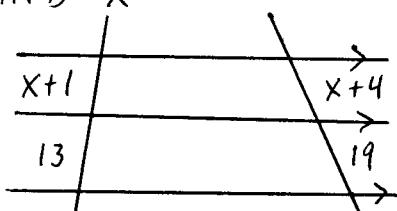
16. $JK = \underline{\hspace{2cm}}$

FIND PQ:



17. $PQ = \underline{\hspace{2cm}}$

FIND X:



18. $X = \underline{\hspace{2cm}}$

19. SIMPLIFY THE FOLLOWING:

$$\frac{x^2 - 9}{x^2 - x - 6}$$

20. GIVEN A (2, -3) AND B (-6, 8)
FIND AB.

★ ANSWERS ★

1. Sometimes

5. 4:3:5

9. $2/3$

13. $y=16$

17. $PQ = \frac{32}{3}$

2. sometimes

6. 1:2

10. $x=4$

14. $AE=6$

18. $x=5.5$

3. always

7. $7x$

11. $x=6$

15. $BG=3.5$

19. $\frac{x+3}{x+2}$

4. 4:3

8. 9,m and 5,k

12. $x=24$

16. $JK=16$

20. $\sqrt{165}$