

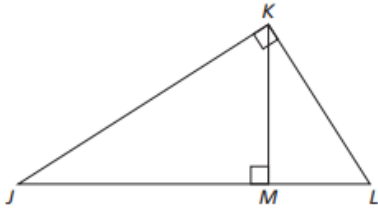
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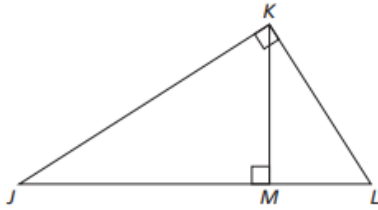
Period:

HW #8-10: Chapter 8 "Warm-Ups"

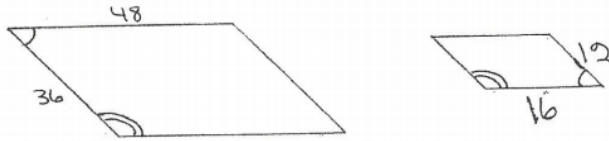
14. If $JL = 12$ and $JM = 8$, find ML , KM , JK , and KL . Exact answers.



15. If $ML = 6$ and $JM = 24$, find KL and KM .



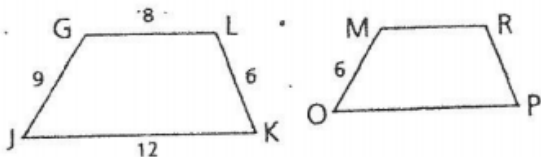
16. Are these parallelograms similar? Explain.



17. Always/Sometimes/Never

- a. If two triangles are similar, then they are congruent. _____
- b. If two triangles are congruent, then they are similar. _____
- c. An obtuse triangle is similar to an acute triangle. _____
- d. Two right triangles are similar. _____
- e. Two equilateral polygons are similar. _____
- f. Two equilateral triangles are similar. _____
- g. Two rectangles are similar if neither is a square. _____

18. Given $GJKL \sim MOPR$, find OP , PR , and MR .



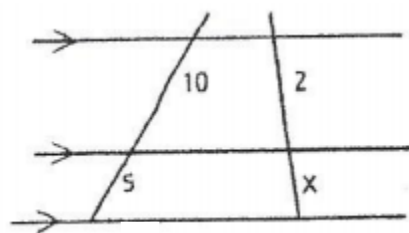
19. If two similar kites have perimeters of 21 and 28, what is the ratio of the measures of their corresponding sides?

20. If two similar triangles have corresponding sides with measures 6 and 10, what is the ratio of their corresponding sides? What is the ratio of their areas?

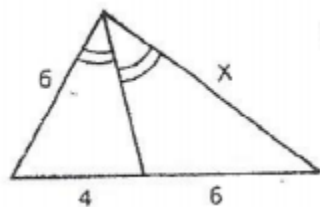
21. Solve for x. $\frac{(x+1)^2}{4} = \frac{5-2x}{3}$

22. Solve for x. $\frac{x+10}{x^2-2} = \frac{4}{x}$

23. Solve the x in the diagram shown below.



24. Solve for x in the diagram shown below.



25. Find AC.

