NAME _____ DATE _____

Cumulative Review

For use after Chapters 1–8

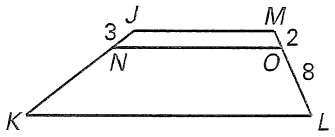
Solve the proportion. (8.1)

15. $\frac{7}{10} = \frac{x}{15}$

16. $\frac{2x + 3}{4} = \frac{5}{6}$

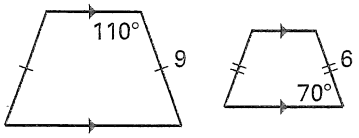
Use the diagram and the given information to find the unknown length. (8.2)

17. $\frac{JN}{NK} = \frac{MO}{OL}$
Find NK.

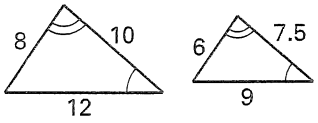


The two polygons are similar. Find the scale factor. (8.3)

18.

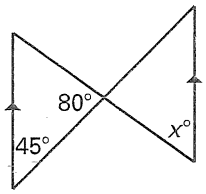


19.

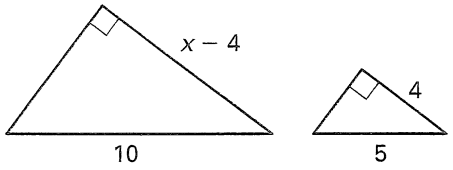


The triangles are similar. Find the values of the variable. (8.4)

20.

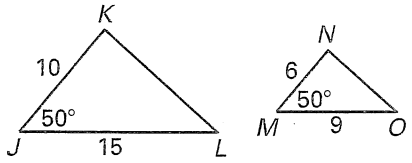


21.

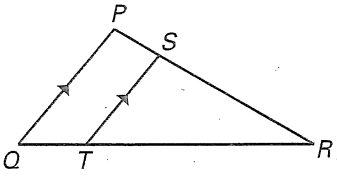


Are the triangles similar? If so, state the similarity and the postulate or theorem that justifies your answer. (8.5)

22.

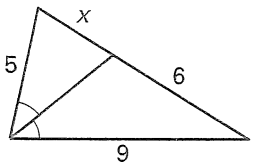


23.

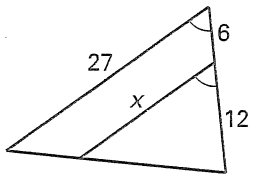


Find the value of the variable. (8.6)

24.

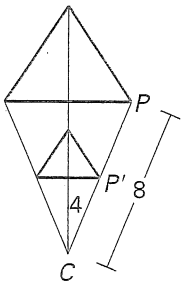


25.



Identify the dilation and find the scale factor. (8.7)

26.



27.