

Cumulative Review

For use after Chapters 1-8

Find the coordinates of the midpoint of \overline{AB} . (1.5)

1. $A(-3, 5), B(7, 9)$

2. $A(0, 6), B(3, -2)$

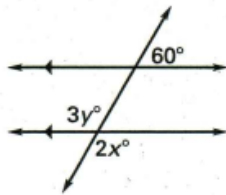
Name the property that justifies the statement. (2.4)

3. If $AB = 8$, then $AB + 6 = 14$.

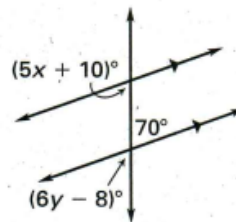
4. If $JK = LM$, then $LM = JK$.

Find the value of x and y . (3.3)

5.

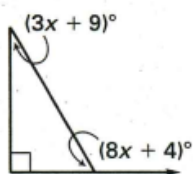


6.

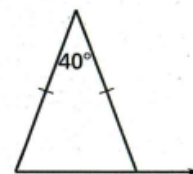


Find the measure to the exterior angle shown. (4.1)

7.



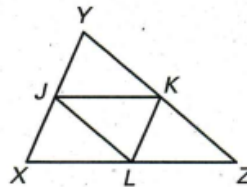
8.



Complete the statement given that $J, K,$ and L are midpoints of sides of $\triangle XYZ$. (5.4)

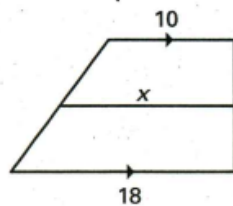
9. $\overline{JK} \parallel$?

10. If $KL = 6$, then $YZ =$?

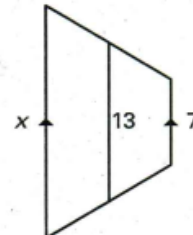


Find the value of x in each trapezoid. (6.5)

11.



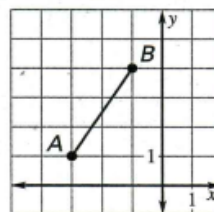
12.



Find the coordinates of the reflection using the preimage below. (7.2)

13. reflection in the x -axis

14. reflection in the y -axis



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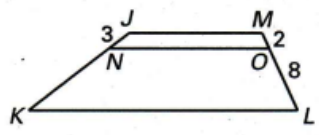
Solve the proportion. (8.1)

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

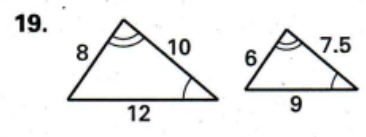
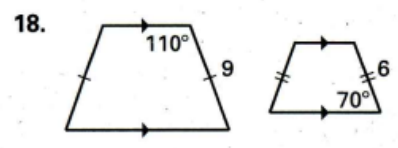
16. $\frac{2x + 3}{4} = \frac{5}{6}$

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

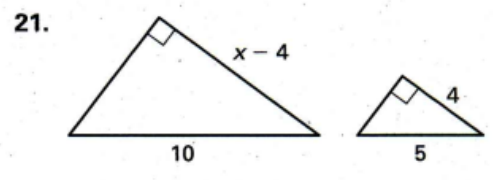
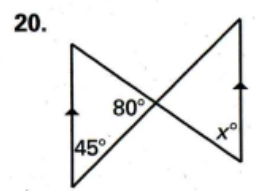
17. $\frac{JN}{NK} = \frac{MO}{OL}$
Find NK.



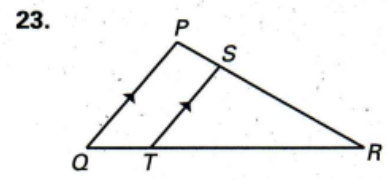
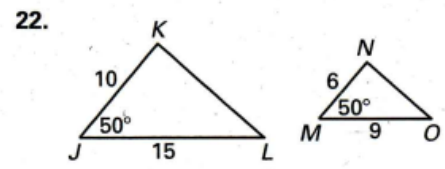
The two polygons are similar. Find the scale factor. (8.3)



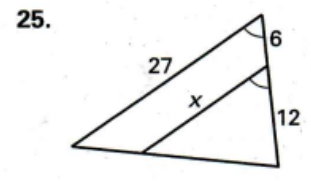
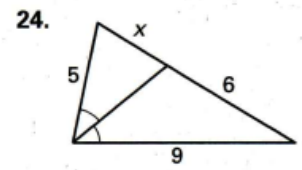
The triangles are similar. Find the values of the variable. (8.4)



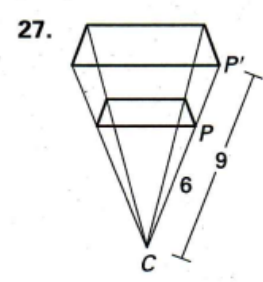
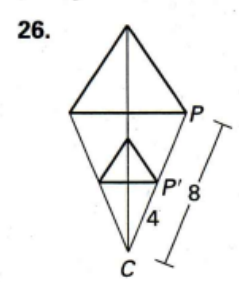
Are the triangles similar? If so, state the similarity and the postulate or theorem that justifies your answer. (8.5)



Find the value of the variable. (8.6)



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



Review and Assess