Practice 7-2

Similar Polygons

Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

1.



2.











LMNO ~ HIJK. Complete the proportions and congruence statements.

7.
$$\angle M = 2$$

9.
$$\angle N = 2$$

10.
$$\frac{MN}{IJ} = \frac{7}{IK}$$

11.
$$\frac{HK}{2} = \frac{HI}{IM}$$

10.
$$\frac{MN}{IJ} = \frac{2}{JK}$$
 11. $\frac{HK}{2} = \frac{HI}{IM}$ 12. $\frac{IJ}{MN} = \frac{HK}{2}$





Algebra The polygons are similar. Find the values of the variables.

13.





15.



10 cm

16. /



 $\triangle WXZ \sim \triangle DFG$. Use the diagram to find the following.

17. the similarity ratio of △WXZ and △DFG

18. m Z Z

19. DG

20. GF

21. mc G

22. m & D

23. WZ





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