Chapter 4 Review

Key Words

For #1 to #4, unscramble the letters for each term. Use the clues to help you.

1. LGYNOPO

A ______ is a closed figure with 3 or more sides.

2. DIECNTURO

A ______ makes an object smaller by a constant factor.

3. CASEL OTCAFR

______ is the constant amount by which a The _____ shape is enlarged or reduced (2 words).

4. IRISLMA

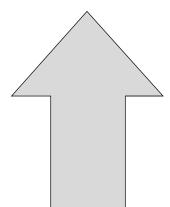
______ figures have equal corresponding angles and related corresponding sides.

5. RROOPPTINO

A ______ is a statement that says that 2 ratios are equal.

4.1 Enlargements and Reductions, pages 178–187

6. Reduce the arrow by $\frac{1}{2}$ and draw it.



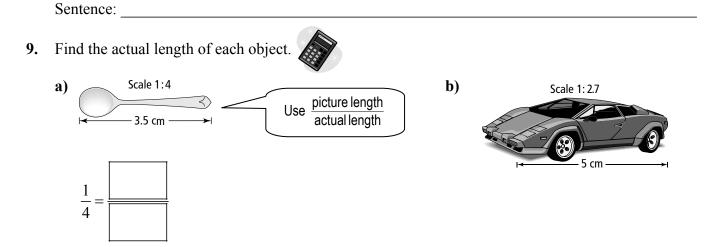
Name:

- 7. Draw the image for each scale factor.
 a) scale factor of 2
 - **b)** scale factor of 0.5 \square

4.2 Scale Diagrams, pages 189–195

8. An actual CD case is 14 cm long. Find the scale factor of the image.

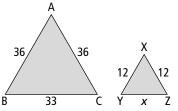


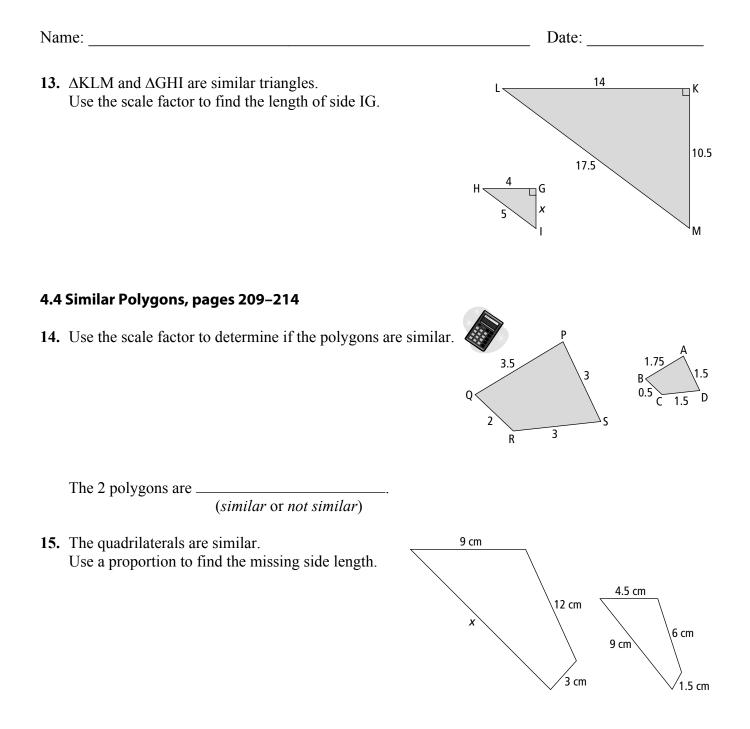


- 10. A highway is 600 km in length.On the map, the length of the highway is 6 cm.
 - a) How far is 1 cm on the map?

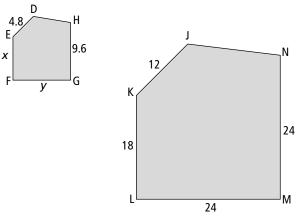
Sentence: **b)** What is the scale factor? Change your answer $1 \text{ km} = 100\ 000 \text{ cm}$ from part a) to cm. Sentence: А 4.3 Similar Triangles, pages 197–207 11. Are these triangles similar? Show your thinking. 15 20 Find the scale factor for corresponding sides. В 10 Sentence: _____

12. $\triangle ABC$ is similar to $\triangle XYZ$. Use a proportion to find the missing length of side YZ.





16. Pentagons DEFGH and JKLMN are similar. Use the scale factor or proportions to determine the side lengths of EF and FG.



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