

Name _____

Scale factors

Use Scale Factors to Enlarge/Reduce Shapes.

1) A triangle has side lengths of 3 cm, 4 cm, and 5 cm. Enlarge the triangle by a scale factor of 3. What are the new side lengths?	2) A rectangle has a length of 20 cm and a width of 10 cm. Reduce the rectangle by a scale factor of 0.5. What are the new dimensions?
3) A rectangle has a length of 6 cm and a width of 2 cm. Enlarge the rectangle by a scale factor of 4. What are the new dimensions?	4) A parallelogram has a base of 7 cm and a height of 5 cm. Enlarge the parallelogram by a scale factor of 1.5. What are the new base and height?
5) A triangle has side lengths of 15 cm, 20 cm, and 25 cm. Reduce the triangle by a scale factor of 0.2. What are the new side lengths?	6) A square has a side length of 12 cm. Reduce the square by a scale factor of 0.75. What is the new side length?
7) A hexagon has side lengths of 6 cm each. Enlarge the hexagon by a scale factor of 2. What are the new side lengths?	8) A pentagon has side lengths of 10 cm each. Reduce the pentagon by a scale factor of 0.5. What are the new side lengths?