

11. Extend Your Thinking

Name: _____ **Class:** _____ **Date:** _____

1. A map scale is $2.5 \text{ cm} = 15 \text{ km}$. A map distance is 8 cm. Find the real distance.

2. A real distance is 42 km and the scale is $3 \text{ cm} = 14 \text{ km}$. Find the map distance.

3. A rectangle is enlarged by factor 1.25. Its sides are 8 cm and 12 cm. Find the new dimensions.

4. A triangle is reduced by factor 0.6. Its sides are 5 cm, 7 cm, and 9 cm. Find the new sides.

5. Construct two non-similar figures where one is larger than the other.

6. Explain why area does not use the same scale factor as length when figures are enlarged.
