Practice worksheet | Measurement and scale

Related length/area/volume factors

Name: _____ Date: _____

6 questions | 13 marks

1. Similar solids have length factor 2. Give area and volume factors. [2 marks]

2. A similar enlargement has $k = 1.5$ and original area 24 cm². Find new area. [2 marks]

3. A solid of volume 40 cm³ is similarly enlarged with $k = 3$. Find volume. [2 marks]

4. Similar areas are 18 and 50 cm². Find the length ratio. [2 marks]

5. Similar volumes are 27 and 216 cm³. Find the small-to-large length factor. [2 marks]

6. A similar solid doubles its surface area. Give its exact volume factor. [3 marks]