Explore

 *Scale factor = 2*

 *original*

*Area of similar 2D shape =*

**Example 1:** Determine the area of the quadrilateral, to the nearest tenth of a square unit after it is reduced by a scale factor of ¼.



Example 2: Determine the scale factor if the diagram of a metal disc has an area of *570 cm2* when the actual disc has an area of 1*2 cm*2

Example 3: A computer screen measures 35 cm by 55 cm. An image of the computer projected onto a whiteboard with a screen area of *7328 cm*2. Determine the length and width of the whiteboard.

Example 4: A grass field costs *$0.60/m*2 to maintain each month. A model shows a 1:1500 scale for the actual field. You budget $20 000/year for maintenance. Can you afford the field?

