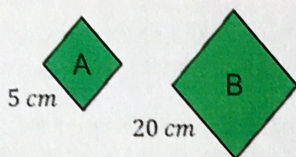
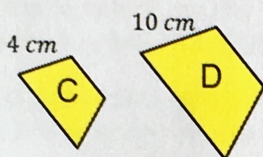


Similar Areas and Volumes



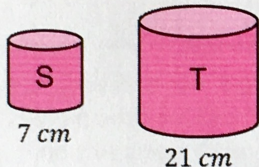
- Find the linear scale factor.
- Find the area scale factor.
- The area of shape A is 15 cm^2 , find the area of shape B.
- The area of shape B is ~~360~~ 360 cm^2 , find the area of shape A.

- 4
- 16
- 240 cm^2
- 22.5 cm^2



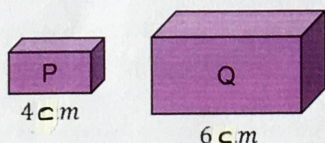
- The area of shape C is 12 cm^2 , find the area of shape D.
- The area of shape D is 50 cm^2 , find the area of shape C.

- $12 \times 2.5^2 = 75 \text{ cm}^2$
- $50 \div 2.5^2 = 8 \text{ cm}^2$



- The volume of shape S is 70 cm^3 , find the volume of shape T.
- The volume of shape T is 810 cm^3 , find the volume of shape S.

- $70 \times 3^3 = 1890 \text{ cm}^3$
- $810 \div 3^3 = 30 \text{ cm}^3$



- The volume of shape P is 24 cm^3 , find the volume of shape Q.
- The volume of shape Q is 270 cm^3 , find the volume of shape P.
- The surface area of shape P is 110 cm^2 , find the surface area of shape Q.
- The surface area of shape Q is 180 cm^2 , find the surface area of shape P.

- $24 \times 1.5^3 = 81 \text{ cm}^3$
- $270 \div 1.5^3 = 80 \text{ cm}^3$
- $110 \times 1.5^2 = 247.5 \text{ cm}^2$
- $180 \div 1.5^2 = 80 \text{ cm}^2$