**Similar Areas and Volumes**



(a) Find the linear scale factor.

(b) Find the area scale factor.

(c) The area of shape A is $15 cm^{2}$, find the area of shape B.

(d) The area of shape B is $360 cm^{2}$, find the area of shape A.



(a) The area of shape C is $12 cm^{2}$, find the area of shape D.

(b) The area of shape D is $50 cm^{2}$, find the area of shape C.



(a) The volume of shape S is $70 cm^{3}$, find the volume of shape T.

(b) The volume of shape T is $810 cm^{3}$, find the volume of shape S.



(a) The volume of shape P is $24 cm^{3}$, find the volume of shape Q.

(b) The volume of shape Q is $270 cm^{3}$, find the volume of shape P.

(c) The surface area of shape P is $110 cm^{2}$, find the surface area of shape Q.

(d) The surface area of shape Q is $180 cm^{2}$, find the surface area of shape P.

**Similar Areas and Volumes**



(a) Find the linear scale factor.

(b) Find the area scale factor.

(c) The area of shape A is $15 cm^{2}$, find the area of shape B.

(d) The area of shape B is $360 cm^{2}$, find the area of shape A.



(a) The area of shape C is $12 cm^{2}$, find the area of shape D.

(b) The area of shape D is $50 cm^{2}$, find the area of shape C.



(a) The volume of shape S is $70 cm^{3}$, find the volume of shape T.

(b) The volume of shape T is $810 cm^{3}$, find the volume of shape S.



(a) The volume of shape P is $24 cm^{3}$, find the volume of shape Q.

(b) The volume of shape Q is $270 cm^{3}$, find the volume of shape P.

(c) The surface area of shape P is $110 cm^{2}$, find the surface area of shape Q.

(d) The surface area of shape Q is $180 cm^{2}$, find the surface area of shape P.