Similar Areas and Volumes
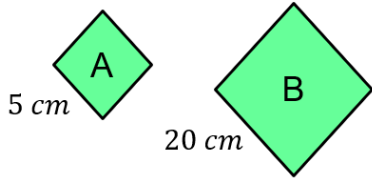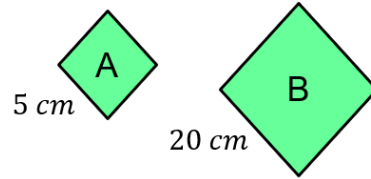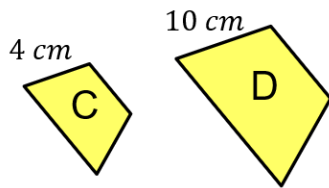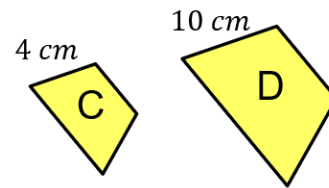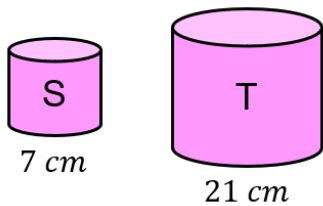

(a) Find the linear scale factor.
(b) Find the area scale factor.
(c) The area of shape A is $15\,cm^2$, find the area of shape B.
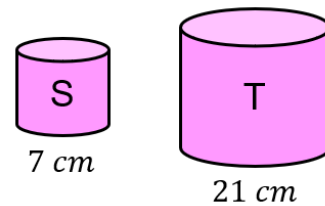(d) The area of shape B is $360\,cm^2$, find the area of shape A.

(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.
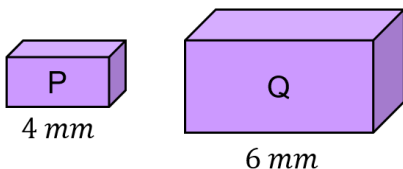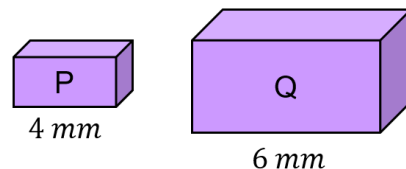

(a) The volume of shape S is $70\,cm^3$, find the volume of shape T.
(b) The volume of shape T is $810\,cm^3$, find the volume of shape S.

(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.