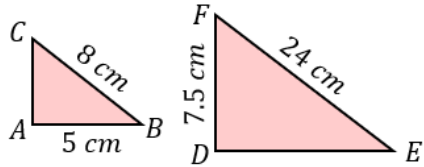


Similar Shapes Revision

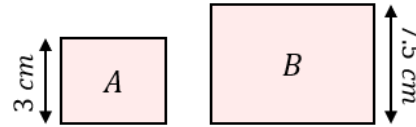
(a)

Triangles ABC and DEF are similar. Calculate the lengths of DE and AC.



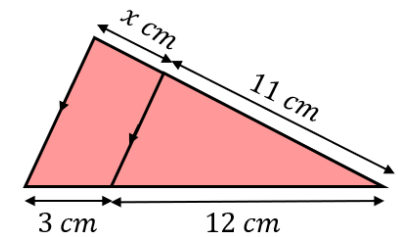
(b)

Rectangles A and B are mathematically similar. The area of A is 40 cm^2 . Work out the area of rectangle B.



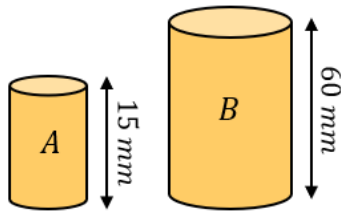
(c)

Find the missing length x .



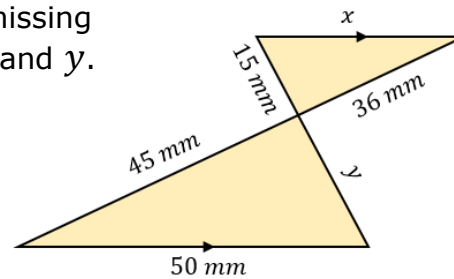
(d)

Cylinders A and B are similar. The volume of cylinder B is 2080 cm^3 . Find the volume of cylinder A.



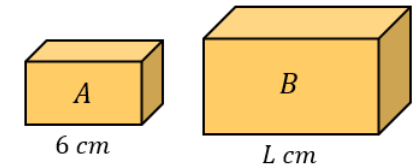
(e)

Find the missing lengths x and y .



(f)

Cuboids A and B are similar. A has a volume of 28 cm^3 and B has a volume of 437.5 cm^3 . Find the length L .

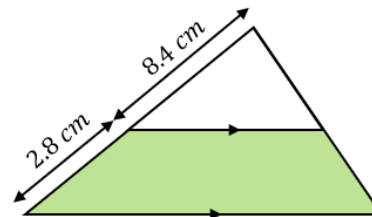


(g)

Cones A and B are mathematically similar. Cone A has a volume of 857.5 cm^3 and a surface area of 73.5 cm^2 . Cone B has a volume of 160 cm^3 . Find its surface area.

(h)

The area of the white triangle is 18 cm^2 . Find the area of the shaded region.



(i)

Pentagons A and B are similar. The scale factor of their lengths is x . The area of A is 12 cm^2 . If the area of B is $(16x + 3) \text{ cm}^2$, find the value of x .

