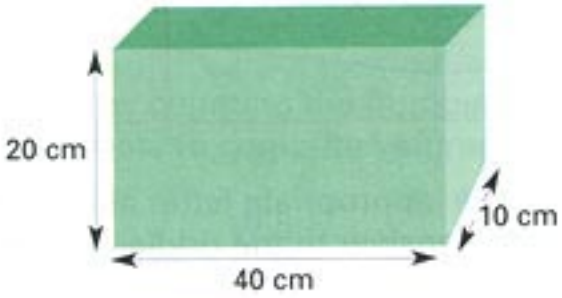
Surface Area

The surface area of a 3-dimensional figure is the combined area of all the faces. If we wanted to know how much cardboard it would take to make a box or how much fabric we would need to cover a box, we would need to know the surface area.



FRONT
20 cm x 40 cm = 800 cm²

TOP
40 cm x 10 cm = 400 cm²

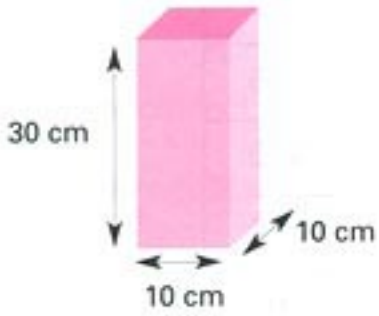
SIDE
20 cm x 10 cm = 200 cm²

Each face has a congruent face opposite it, so we will multiply each part of the figure by 2.

Front	800 cm² x 2 =	1,600 cm²
Top	400 cm² x 2 =	800 cm²
Side	200 cm² x 2 =	400 cm²
Add to find total		**2,800 cm²**

The surface area of the box is 2,800 cm²

1 Find the surface area of the two boxes.

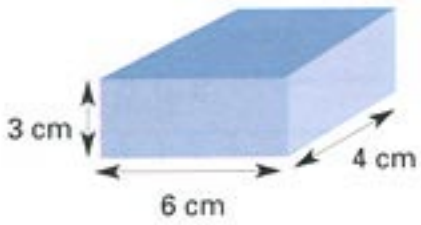


Front 30 cm x 10 cm = _____ x 2 = _____

Top 10 cm x 10 cm = _____ x 2 = _____

Side 30 cm x 10 cm = _____ x 2 = _____

Total _____



Front 3 cm x 6 cm = _____ x 2 = _____

Top 6 cm x 4 cm = _____ x 2 = _____

Side 3 cm x 4 cm = _____ x 2 = _____

Total _____

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