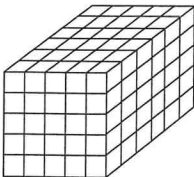# Explore Surface Area of Rectangular Prisms

You can find the **surface area** of a rectangular prism by finding the total area of all its faces. Each face is a rectangle, so use the formula $A = lw$ to find the area of each face.
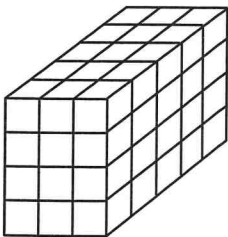
Find the surface area of this rectangular prism.

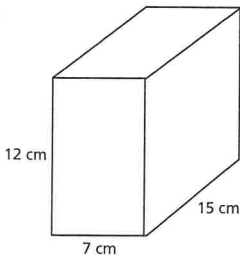|	
Front face:	$5 \times 5 = 25$ square units
Back face:	$5 \times 5 = 25$ square units
Top face:	$5 \times 6 = 30$ square units
Bottom face:	$5 \times 6 = 30$ square units
Right face:	$5 \times 6 = 30$ square units
Left face:	$5 \times 6 = 30$ square units
Total surface area:	170 square units

Find the surface area of each rectangular prism.

1.

Front face: _____ × _____ = _____ square units

Back face: _____ × _____ = _____ square units

Top face: _____ × _____ = _____ square units

Bottom face: _____ × _____ = _____ square units

Right face: _____ × _____ = _____ square units

Left face: _____ × _____ = _____ square units

Total surface area: _____ square units

2.

12 cm

15 cm

7 cm

Front face: _____ × _____ = _____ cm²

Back face: _____ × _____ = _____ cm²

Top face: _____ × _____ = _____ cm²

Bottom face: _____ × _____ = _____ cm²

Right face: _____ × _____ = _____ cm²

Left face: _____ × _____ = _____ cm²

Total surface area: _____ cm²