

5.3

Surface Area of a Prism

MathLinks 8, pages 176–181

Key Ideas Review

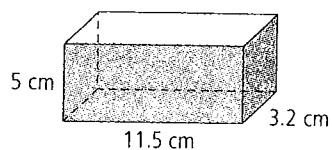
1. Complete the statement.

Finding the sum of all the areas of each _____ on a 3-D object is called calculating the _____.

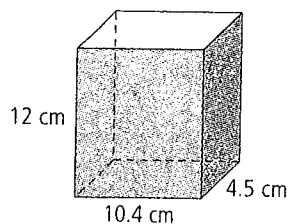
Practise and Apply

2. Calculate the surface area of each rectangular prism to the nearest tenth of a centimetre squared.

a)

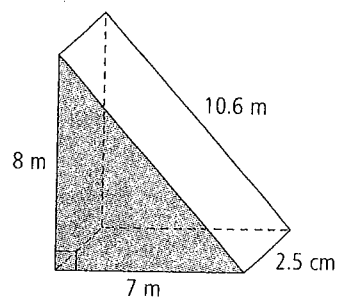


b)

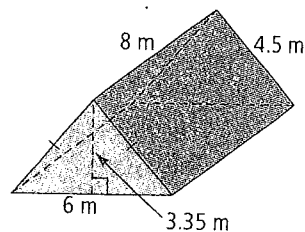


3. Find the surface area of each triangular prism to the nearest tenth of a meter squared.

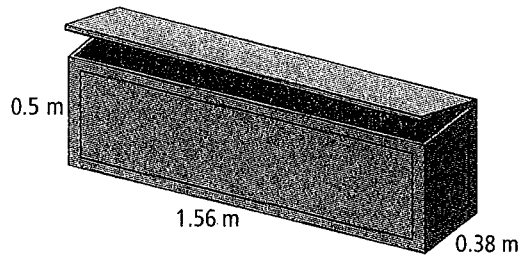
a)



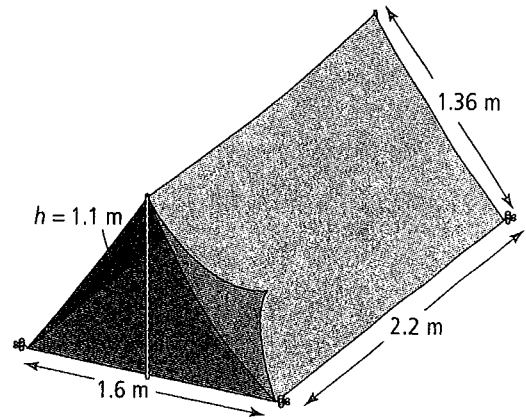
b)



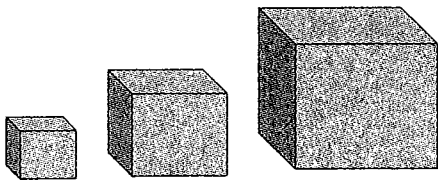
4. Ty is painting this storage bench for the deck. How much area does he need to paint, to the nearest hundredth of a square metre?



6. The Rileys need to make a new cover for their tent before going camping this summer. Their tent measures 2.2 m in length by 1.6 m wide, and it has a height of 1.1 m.



5. Peter needs to paint three boxes for a project. The boxes measure $1.5\text{ m} \times 1.5\text{ m} \times 1.5\text{ m}$, $2.5\text{ m} \times 2.5\text{ m} \times 2.5\text{ m}$, and $3.5\text{ m} \times 3.5\text{ m} \times 3.5\text{ m}$ respectively. What is the total surface area that Peter will paint, if he paints the outside of all of the boxes?



- a) Calculate the amount of material they need to make the new cover.

- b) Waterproof material at the Fabric Warehouse is on sale this week for \$24.95 a square metre. Calculate the cost to make the new cover.