Surface Area

Find the surface area of each rectangular prism.

1.

3 m

5 m

8 m

158 m²

2.

12 ft

12 ft

12 ft
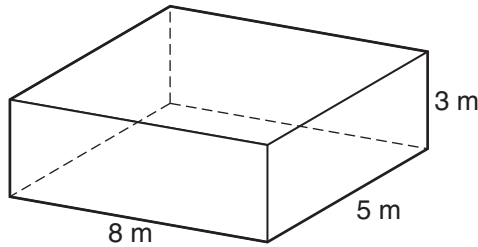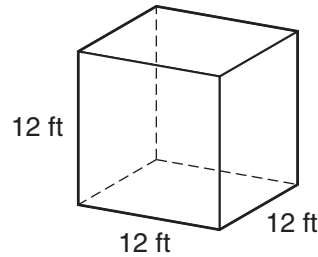
864 ft²

Strategy Practice Music and computer CDs are often stored in plastic cases called jewel cases.

3. One size of jewel case is 140 mm × 120 mm × 4 mm. What is the surface area of this jewel case?

35,680 mm²

4. A jewel case that holds 2 CDs is 140 mm × 120 mm × 9 mm. What is the surface area of this jewel case?

38,280 mm²

5. What is the surface area of a rectangular prism with the dimensions 3 in. by 4 in. by 8 in.?

A 96 in²   **B** 112 in²   **C** 136 in²   **D** 152 in²

6. Explain It Explain why the formula for finding the surface area of a rectangular prism is helpful.

Possible answer: the formula gives the total area of a solid rectangular shape that needs to be covered or painted.