Volume

Find the volume of each rectangular prism.

1. base area 56 in^2, height 6 in.
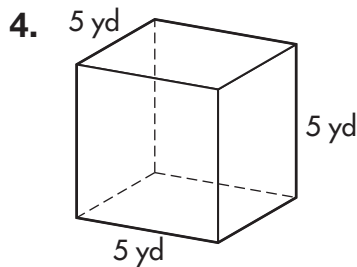
2. base area 32 cm^2, height 12 cm

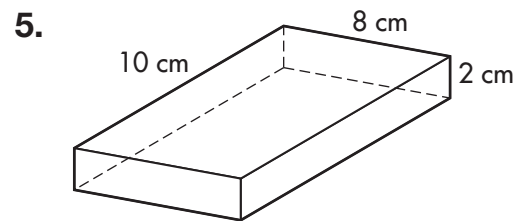**3.** base area 42 m^2, height 8 m

336 in^3 _____

384 cm^3 _____

336 m^3 _____

4.

5 yd, 5 yd, 5 yd

125 yd^3 _____

5.

8 cm, 10 cm, 2 cm

160 cm^3 _____

6. Algebra What is the height of a solid with a volume of 120 m^3 and base area of 30 m^2?
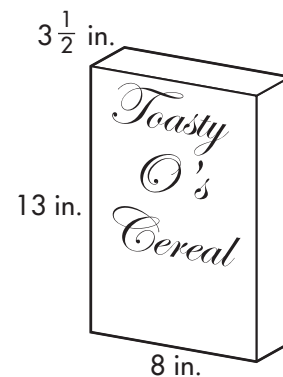
4 m _____

Michael bought some cereal at the grocery store.

7. What is the base area of the box?

28 in^2 _____

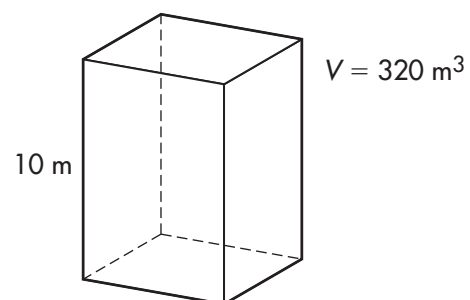**8.** What is the volume of the box?

364 in^3 _____

$3\frac{1}{2}$ in.

Toasty O's Cereal

13 in.

8 in.

9. What is the base area of this figure?

A 3.2 m^2 **C** 320 m^2

(B) 32 m^2 **D** 3,200 m^2

$V = 320$ m^3

10 m

10. Explain It Explain how you would find the base area of a rectangular prism if you know the volume and the height.

Sample answer: Divide the volume by the height to find the base area.