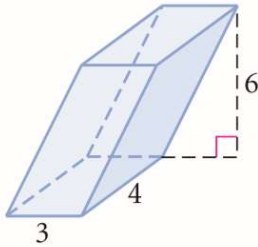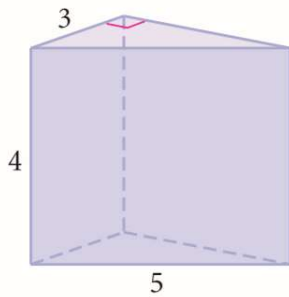**Find the volume of each solid. All measurements are in centimeters.**
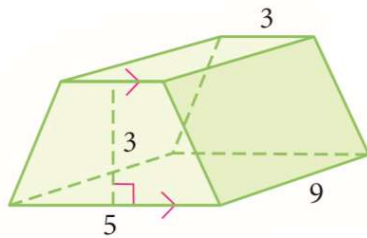
1. Oblique rectangular prism

6

4

3

2. Right triangular prism

3

4

5

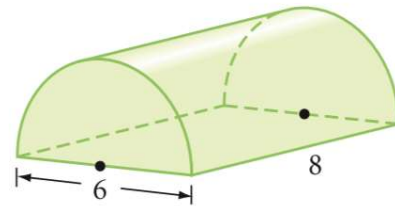3. Right trapezoidal prism

3

3

5

9

4. Right cylinder

4

10
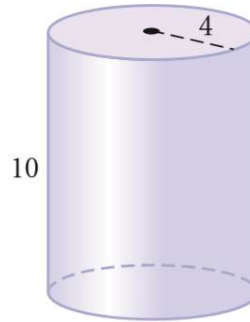
5. Right semicircular cylinder

6

8

6. Right cylinder with a 90° slice removed

6

12

90°
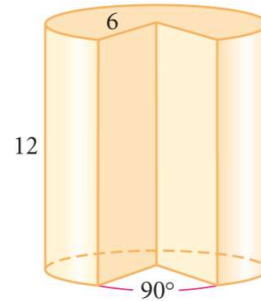
7. Use the information about the base and height of each solid to find the volume. All measurements are given in centimeters.

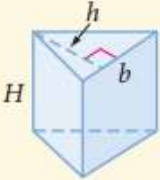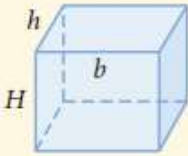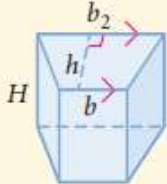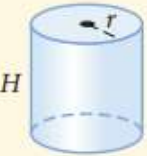| Information about base of solid	Height of solid	Right triangular prism h H b	Right rectangular prism h H b	Right trapezoidal prism b_2 H h b	Right cylinder r H
$b = 6, b_2 = 7,$ $h = 8, r = 3$	$H = 20$	a. $V =$	d. $V =$	g. $V =$	j. $V =$
$b = 9, b_2 = 12,$ $h = 12, r = 6$	$H = 20$	b. $V =$	e. $V =$	h. $V =$	k. $V =$
$b = 8, b_2 = 19,$ $h = 18, r = 8$	$H = 23$	c. $V =$	f. $V =$	i. $V =$	l. $V =$

8. A contractor needs to build a ramp, as shown, from the street to the front of a garage door. How many cubic yards of fill will she need?

2 yards

17 yards

10 yards
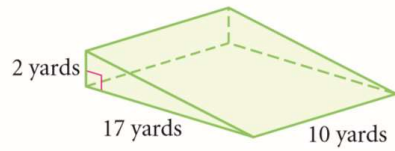
9. If an average rectangular block of limestone used to build the Great Pyramid of Khufu at Giza is approximately 2.5 feet by 3 feet by 4 feet, and limestone weighs approximately 170 pounds per cubic foot, what is the weight of one of the nearly 2,300,000 limestone blocks used to build the pyramid?

The Great Pyramid of Khufu at Giza, Egypt, was built around 2500 B.C.E.

2.5 ft

3 ft

4 ft