Name _____   Date _____

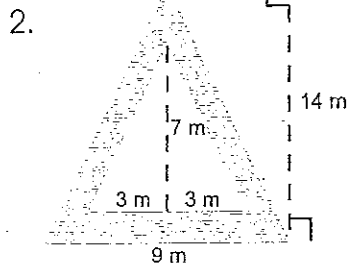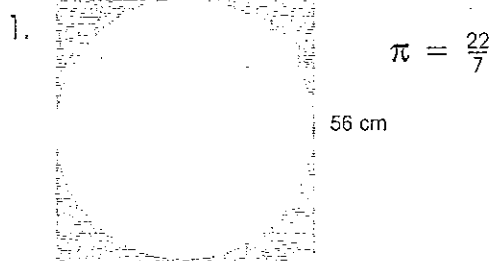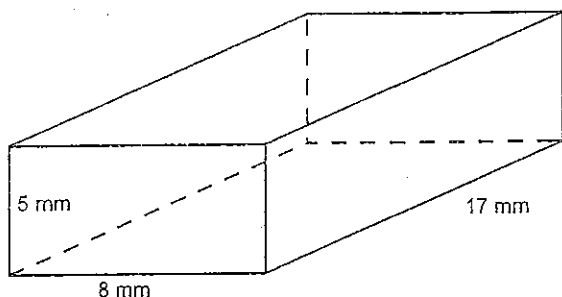# Mixed Practice with Area and Volume

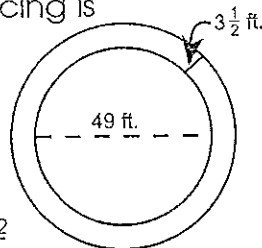Find the area of the shaded region.

1.

$\pi = \frac{22}{7}$

56 cm

2.

14 m

7 m

3 m   3 m

9 m

3. Find the surface area.

5 mm

17 mm

8 mm

4. How much fencing is needed to fence both sides of a circular walk as shown?

$\pi = \frac{22}{7}$

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

49 ft.

5. What is the area of a rectangular flower bed with length of 5 m and width of 1.6 m?

Find the volume.

6.

3 ft.

4 ft.

3 ft.

4 ft.

7 ft.

7.

30 ft.

28 ft.   22 ft.

18 ft.
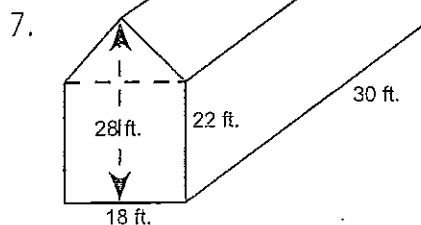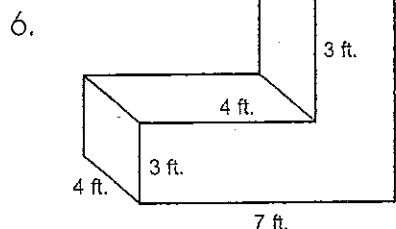
8. A dress pattern requires a triangular-shaped piece with a 10 in. base and an 18 in. height. Find the area of the piece.

9. A water trough is half of a circular cylinder with a 6 ft. radius and a 3 ft. height. Find the volume. $\pi = 3.14$.

10. A doghouse is a cube with sides of length 5 feet. How much wood is needed if it does not have a floor? What is the volume?

11. A nightstand has a base $1\frac{1}{2}$ ft. by 2 ft. and a height of 3 ft. How much space does it need on the floor? What is the volume?

0-7424-1777-8 *Intro to Geometry*