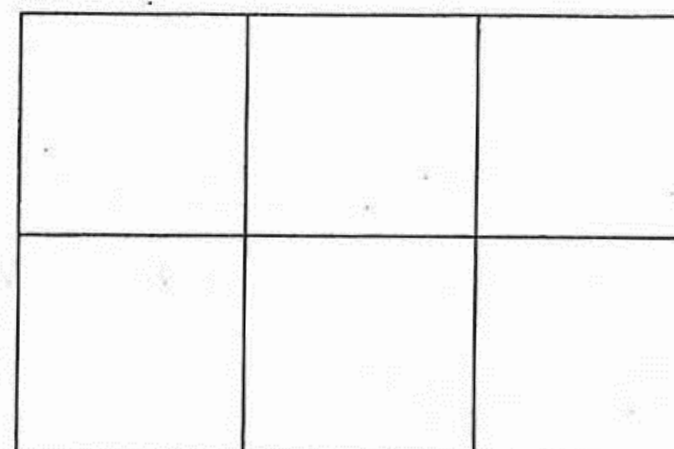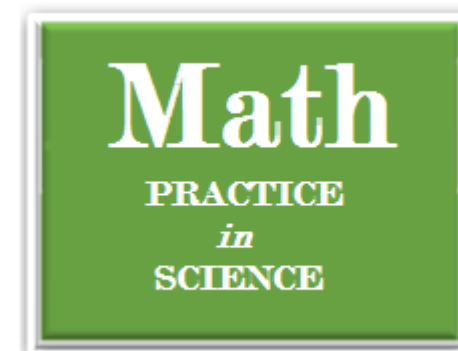# 081 Math Practice

Area

Area is a two-dimensional measure of how much surface is in a region. Area is measured in square units such as square inches (sq. in.) or square feet (sq. ft.). You can find the area of a rectangle by multiplying its length by its width.
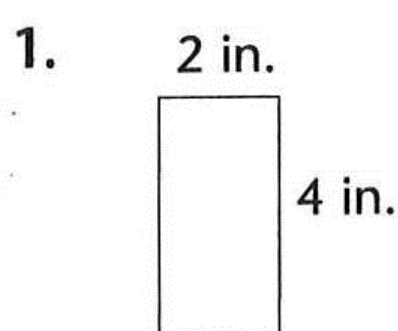
Example: Find the area of this rectangle.
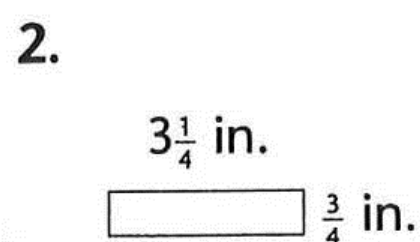A = length x width
A = 3 units x 2 units
A = 6 square units

The area is 6 sq. units.

Find the area of each rectangle. Remember to include the correct units in each answer.

1. 2 in. / 4 in.
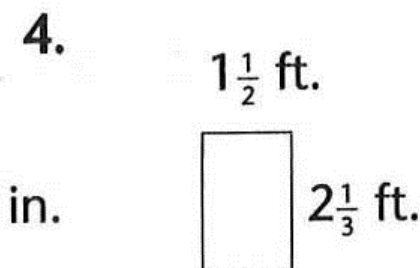
Area = _____

2. $3\frac{1}{4}$ in. / $\frac{3}{4}$ in.

Area = _____

3. 4.2 in. / 1.6 in.

Area = _____

4. $1\frac{1}{2}$ ft. / $2\frac{1}{3}$ ft.

Area = _____

5. $\frac{3}{8}$ in. / 4 in.

Area = _____

6. 3 ft. / $5\frac{1}{2}$ ft.

Area = _____

7. .12 ft. / 4.3 ft.

Area = _____

8. .6 in. / 2.1 in.

Area = _____

9. $2\frac{2}{3}$ ft. / $\frac{3}{4}$ ft.

Area = _____

10. $1\frac{1}{2}$ in. / 6 in.

Area = _____

11. 1.6 in. / 4.2 in.

Area = _____

12. 1.2 in. / 1.2 in.

Area = _____

13. $1\frac{2}{3}$ in. / $\frac{3}{5}$ in.

Area = _____

14. $\frac{2}{3}$ in. / $1\frac{1}{8}$ in.

Area = _____

15. $1\frac{1}{3}$ in. / $4\frac{1}{2}$ in.
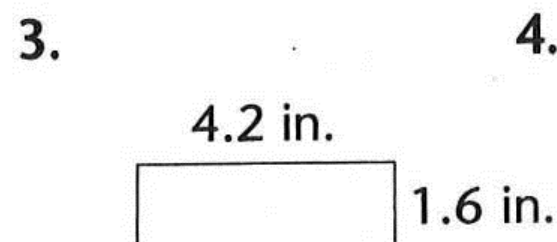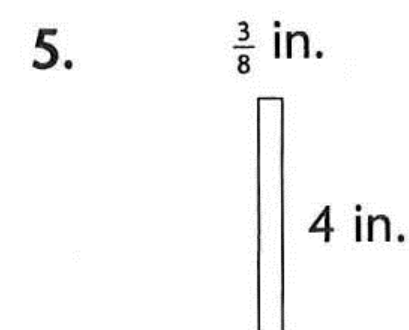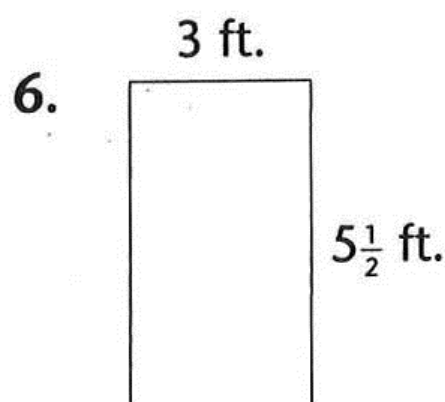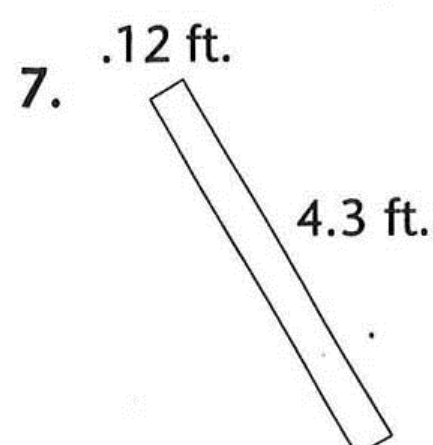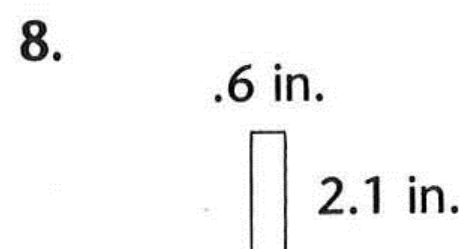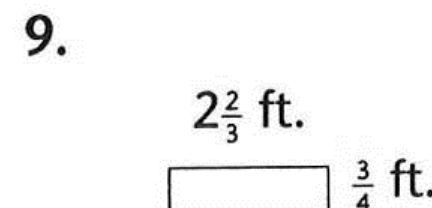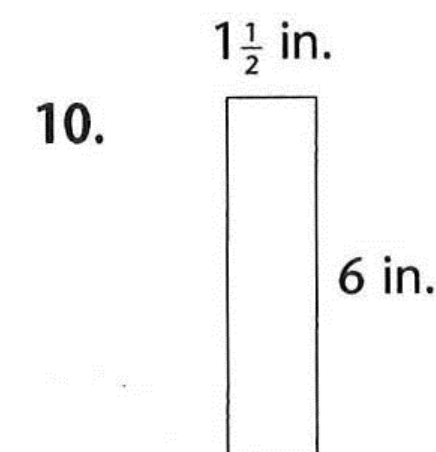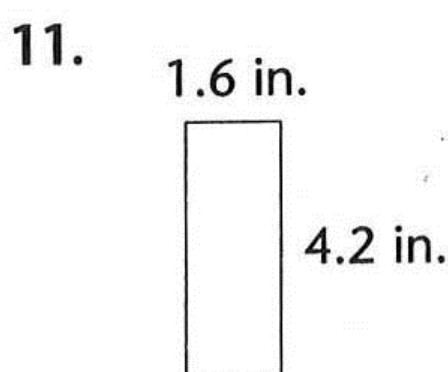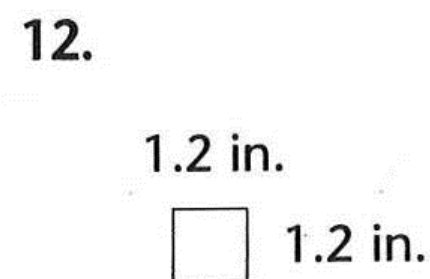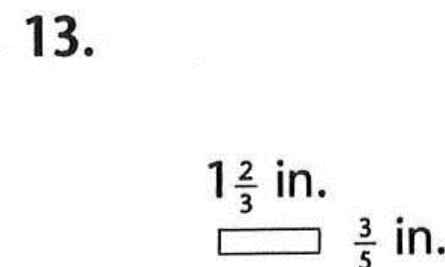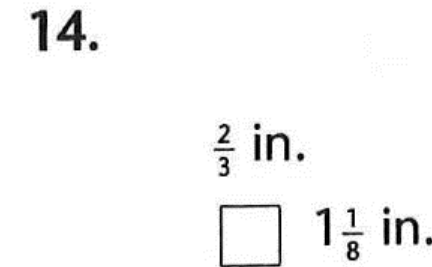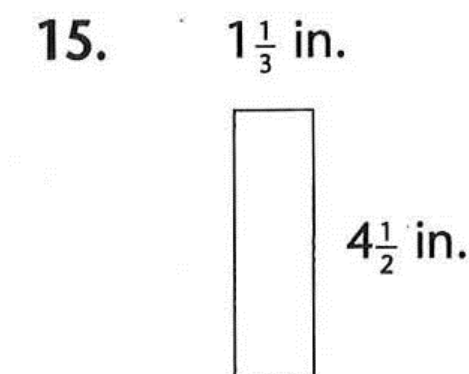
Area = _____
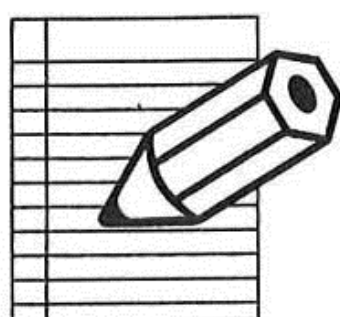
Michelle is planning to purchase new carpeting for her family room. The room measures 14 feet x 18 feet. How much carpeting should Michelle buy?
a. 252 feet
b. 32 square feet
c. 64 square feet
d. 252 square feet

082 Math Practice

Volume

Volume is the measurement of three-dimensional space, such as the space inside a room or a ball. Volume is measured in cubic units such as cubic inches (cu. in.) or cubic feet (cu. ft.). The volume of a shape 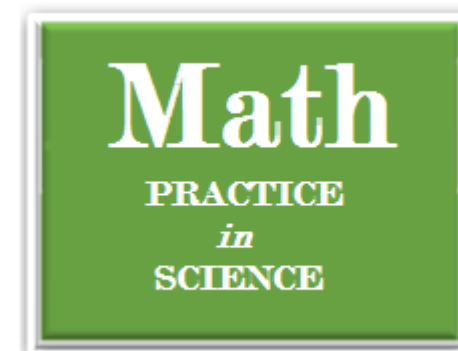is the measure of how much it holds. You can find the volume of a rectangular prism by multiplying its length, width, and height.

Example: Find the volume of a rectangular prism with a length of 3 inches, a width of 2 inches, and a height of 2 inches.
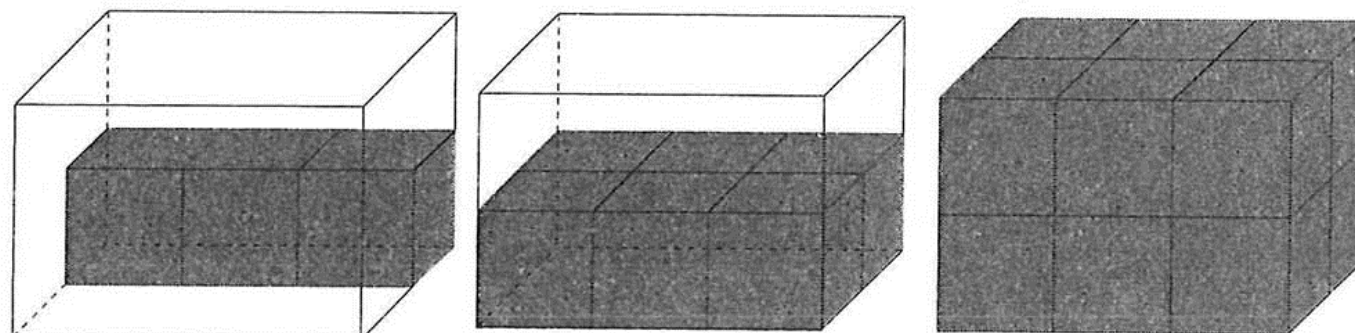
Volume = length x width x height
$V = l\ x\ w\ x\ h$
$V = 3 \times 2 \times 2$
$V = 12$ cu. in.
The volume is $3 \times 2 \times 2$, or 12 cu. in.

Find the volume of each rectangular prism.

1. 2 in., 2 in., 4 in.
_____

2. .6 ft., .8 ft., 1 ft.
_____

3. 4 in., 4.5 in., 4 in.
_____

4. 12 in., 14 in., 12 in.
_____

5. 3.5 in., 2 in., 2 in.
_____

6. 16 in., 12 in., 10 in.
_____

7. 1.6 in., 2 in., 3.5 in.
_____

8. 6 in., 7 in., 6 in., 6 in.
_____

9. 2 in., 2.1 in., 5 in.
_____

10. 8 in., 1 in., 2 in.
_____

11. 2 in., 8 in., 2.4 in.
_____

12. 2 ft., 4 ft., 3 ft.
_____

13. 4 in., 4 in., .5 in.
_____

14. 3 in., 4 in., .3 in.
_____

15. 1 in., 5 in., 7 in.
_____

16. 5 in., 6 in., 3 in.
_____