Name_____**Date**_____

5th Grade: 5.MD.3: Recognize volume as an attribute of solid figures and understand concepts of volume measurement.

   a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.

   b. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.
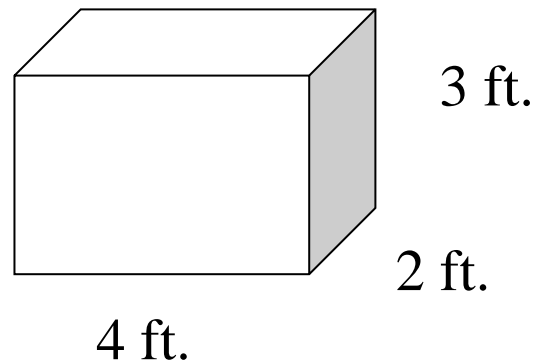
1. Calculate the volume of the box to the below:

   a) 9 ft.^{2}
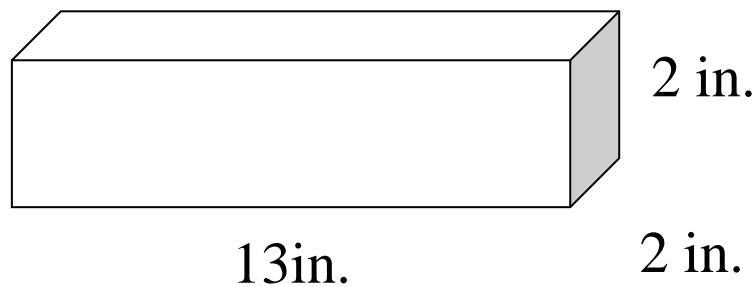
   b) 24 ft.^{3}

   c) 14 ft.^{3}

   d) 20 ft.^{3}

3 ft.

2 ft.

4 ft.

2. Calculate the volume of the box to the below:

   a) 17 in^3

   b) 26 in^3

   c) 52 in^3

   d) 1322 in^3

2 in.

13in.

2 in.

3. A rectangular prim has the following dimensions; it is 15 inches long, 12 inches wide and 7 inches tall. What is its volume?
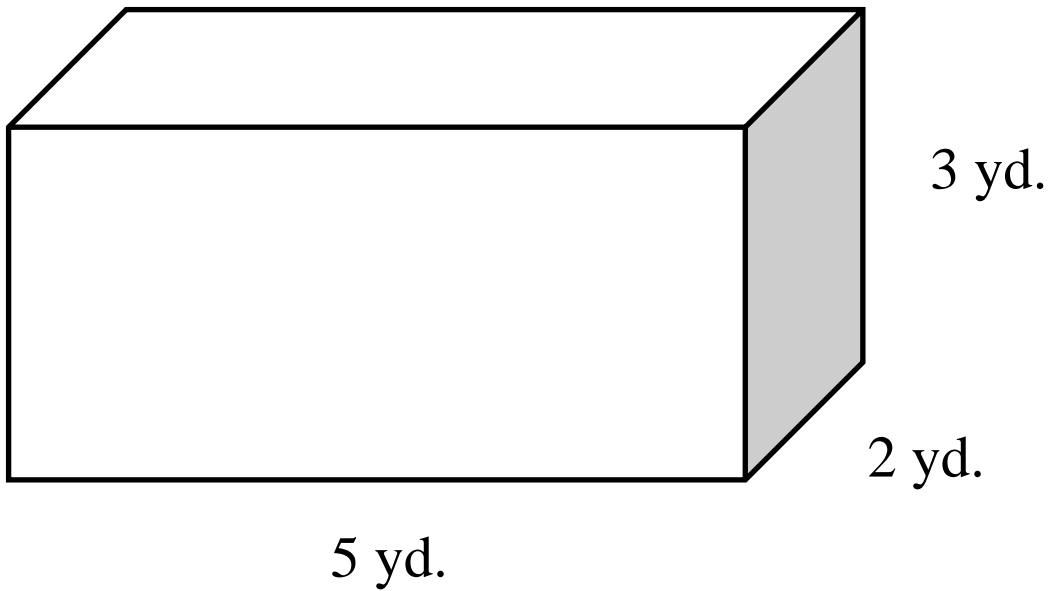
   a) 1,260 ft.^{3}

   b) 105 ft.^{3}

   c) 84 ft.^{3}

d) 34 ft.^{3}

4. Calculate the volume of the box to the below:

3 yd.

2 yd.

5 yd.

    a) 10 yd^3

    b) 10 yd^2

    c) 30 yd^3

    d) 30 yd^2

5. A cube is 5 mm long. What is its volume?

    a) 25 mm^2

    b) 25 mm^3

    c) 125 mm^2

    d) 125 mm^3