# Geometry Test

1) Find the <u>diameter</u> (in m) of a pizza if its area is 0.07 $m^2$.
    (A) 0.15;    (B) 0.30;    (C) 0.023;    (D) 0.016;    (E) 0.09

2) Find the volume (in $cm^3$) of a sugar cube with side 0.7 cm.
    (A) 0.7;    (B) 0.49;    (C) 0.34;    (D) 1.4;    (E) 2.1;

3) Find the surface area (in $miles^2$) of the 235 mile stretch of I-35 from Texas to Kansas if it is a rectangular strip 0.02 miles wide.
    (A) 4.7;    (B) 240;    (C) 1,200;    (C) $4.0 \cdot 10^{-4}$;    (E) 120;

4) Find the radius (in cm) of a 1-L bottle (1000 $cm^3$) of Pepsi which is 20 cm tall.
    (A) 50;    (B) 20 cm    (C) 16;    (D) 8.0;    (E) 4.0;

5) Find the circumference (in cm) of a basketball with a radius of 12 cm.
    (A) 75;    (B) 24;    (C) 38;    (D) 19;    (E) 450;

6) What is the distance (in m) between opposite faces (sides) of a cube box with a 0.6 m side?    (A) 0.36;    (B) 1.2;    (C) 6.0;    (D) 1.4;    (E) 0.6;

7) How much paint (in gal) is needed to paint the walls of a 14 ft x 14 ft room with 8-ft high ceilings if 1 gal of paint covers 450 sq ft? (Assume there are no doors or windows.)
    (A) 0.44;    (B) 0.25;    (C) 3.5;    (D) 1.0;    (E) 1.9;

8) What is the volume (in $cm^3$) of a 12-cm radius basketball?
    (A) 7,200;    (B) 50;    (C) 1,700;    (D) 450;    (E) 140;

9) How many feet of fence is needed to fence in a 50 ft by 20 ft garden?
    (A) 1,000;    (B) 140;    (C) 70;    (D) 280;    (E) 120;

10) What is the volume (in $cm^3$) of a shoebox which is 30 cm long, 15 cm wide and 9 cm high?    (A) 450;    (B) 270;    (C) 1,700;    (D) 4,100;    (E) 320;

11) What is the area (in $cm^2$) of the largest side (face) of a shoebox which is 30 cm long, 15 cm wide, and 9 cm high?
    (A) 140;    (B) 270;    (C) 450;    (D) 860;    (E) 45;

12) What is the length (in cm) of the side of a square floor tile of area 530 $cm^2$?
    (A) 92;    (B) 130;    (C)13;    (D) 270;    (E) 23;

13) Find the length (in m) of the diagional of a 3-m by 4-m rectangle.
    (A) 12;    (B) 7.0;    (C) 14;    (D) 5.0;    (E) 2.6;

Answers: 1-B; 2-C; 3-A; 4-E; 5-A; 6-E; 7-D; 8-A; 9-B; 10-D; 11-C; 12-E; 13-D