# American Math 6ᵗʰ Grade HW 26;
# Surface Area and Volume of Solids

1. Which correctly describes the net of a square pyramid?

    A two squares, three triangles

    B one square, three triangles

    C one square, four triangles

    D two squares, four triangles

2. Which net is **not** the net of a cube?

    A   C
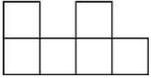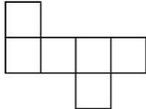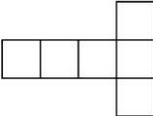
    B   D
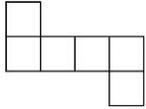
3. What is the surface area of the rectangular prism below? Show your work.

$5\frac{1}{3}$ ft
$4\frac{5}{6}$ ft
$18\frac{1}{2}$ ft
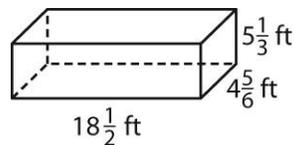
    A $427\dfrac{7}{18}$ in²   C $427\dfrac{15}{18}$ in²

    B $427\dfrac{13}{18}$ in²   D $427\dfrac{17}{18}$ in²

4. A point at $(-4, 7)$ is reflected across the
   x-axis. What is the ordered pair of the reflected point?

    A $(4, 7)$ C $(-4, -7)$

    B $(7, -4)$ D $(-7, -4)$

5. What is the surface area of the square pyramid below? Show your work.

8 cm

5 cm
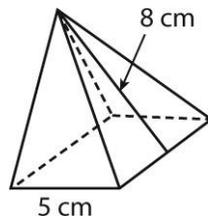
6. A child's wading pool is 3.8 feet wide, 5.5 feet long, and 1.2 feet deep. How many gallons of water will the pool hold? Show your work.
(Use 1 ft^3 = 7.5 gal.)

7. A triangle has a height of 11.6 centimeters and an area of 54.52 square centimeters. What is its length? Show your work.

   A 10.3 cm   C 8.4 cm

   B 9.4 cm   D 4.7 cm

8. The volume of a cube is 216 cubic units. What is the length of each edge? Explain how you know. Show your work.

9. The rectangular prism below has a volume of $464\frac{3}{4}$ cubic meters.

                                  7 m

                              $4\frac{1}{2}$ m
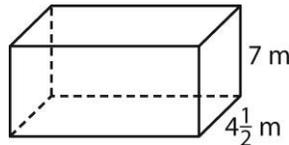
   a. Write an equation that could be used to find the length of the prism.

      _____

   b. Find the length. Show your work.

10. Draw a net for the rectangular prism below and label the dimensions. Find the volume and surface area of the prism. Show your work.

                              $9\frac{1}{5}$ cm

                        $6\frac{1}{2}$ cm

    3 cm