Middle and High: Perimeter, Area, Surface Area, and Volume Assessment

1. In the formula to determine area of a triangle, height equals the length of
   a. The base
   b. The altitude
   c. ∏
   d. Vertex

2. A two dimensional representation of all the faces of a prism is called?
   a. Diameter
   b. Surface area
   c. Net
   d. Circumference

3. The formula to find area of a circle is
   a. A=1/2bh
   b. A=lw
   c. A=1/3bh + ∏
   d. A=∏r^2

4. The definition of surface area is
   a. the sum of the area of all the faces of an object
   b. The space inside a two dimensional polygon
   c. The amount of space inside a three dimensional object
   d. The amount of space one face of a three dimensional object

5. The radius of a circle is _____ of the diameter
   a. One third
   b. The length
   c. Half
   d. Double

6. What is the area of a triangle with a height of 5cm and a base of 10cm?
   a. 20cm^2
   b. 25cm^2
   c. 20 cm^3
   d. 25cm^3

7. What is the approximate area of a circle with a diameter of 8cm?
   a. 200.95 cm^2

b. $50.24\ cm^2$
c. $64\ cm^2$
d. $25.12\ cm^2$

8. What is the surface area for a cube with a length of 6cm?
   a. $72\ cm^3$
   b. $72\ cm^2$
   c. $216\ cm^3$
   d. $216\ cm^2$

9. A sector is the region of a circle bound by
   a. A right angle
   b. The radius and diameter
   c. Two radii and an arc
   d. An intercepted arc

10. What is the approximate area of a sector which a radius of 3cm and an arc of 60^o
    a. $6.45\ cm^2$
    b. $10\ cm^2$
    c. $4.71\ cm^2$
    d. $3.13\ cm^2$