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
 - с. П
 - d. Vertex

Correct feedback: Yes, the height equals the length of the altitude

Incorrect feedback: Nice try! Height equals the length of the altitude. Please review the finding the area of a triangle PowerPoint.

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

Correct feedback: Yes, a two dimensional representation of all the faces of a prism is called a net

Incorrect feedback: Sorry, a two dimensional representation of all the faces of a prism is called a net. Please review the vocabulary for middle school students.

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

Correct feedback: Yes! The formula for area of a circle is $A = \prod r^2$

Incorrect feedback: Sorry, the formula for area of a circle is $A=\prod r^2$ Please review the finding the area of a circle PowerPoint.

- 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

Correct feedback: Yes, the definition of surface area is the sum of the area of all the faces of an object.

Incorrect feedback: Sorry, the definition of surface area is the sum of the area of all the faces of an object. Please review the definitions found in the "Time for take off" section.

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

Correct feedback: Yes, the radius of a circle is half the diameter.

Incorrect feedback: Sorry, the radius of a circle is half the diameter. Please review the finding the area of a circle PowerPoint.

- 6. What is the area of a triangle with a height of 5cm and a base of 10cm?
 - a. 20cm^2
 - b. 25cm²
 - c. 20 cm^3
 - d. 25cm^3

Correct feedback: Yes, the answer is 25cm²

Incorrect feedback: Sorry, the answer is 25cm². Please review the area of a triangle PowerPoint.

- 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

Correct feedback: Yes, the approximate area of the circle is 50.24 cm²

Incorrect feedback: Sorry, the approximate area of the circle is 50.24 cm². Please review the finding the area of a circle PowerPoint

- 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

Correct feedback: Yes, the surface area is 216 cm²

Incorrect feedback: Sorry the surface area is 216 cm². Please review the finding the surface area of a three dimensional object PowerPoint.

- 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

Correct feedback: Yes! A sector is the region of a circle bound by two radii and an arc

Incorrect feedback: Sorry! A sector is the region of a circle bound by two radii and an arc. Please review the finding the area of a sector PowerPoint

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

Correct feedback: Yes, the approximate are of the sector is $4.71~\text{cm}^2$

Incorrect feedback: Sorry, the approximate area of the sector is 4.71 cm². Please review the finding the area of a sector of a circle PowerPoint.