Surface Area of a Triangular Pyramid

Name:_____

To find the surface area of a triangular pyramid $\left(SA = A + \frac{3}{2}bs\right)$.

1) Find the surface area with a base length of 5centimeter, apothem length of 3centimeter and a slant height of 10centimeter.

    _____82.5 square centimeters_____

2) The surface area of a triangular pyramid is given by 666square meters, apothem length of 8meters and the side of the pyramid is 18meters. Find the slant height of the triangular pyramid.

    _____

3) The surface area of a triangular pyramid is 402square centimeters, apothem length of 7centimeters and the side of the square is 12centimeters. Find the slant height of the triangular pyramid.

    _____

4) Find is the slant height of a triangular pyramid with a base area of 32.5 square inches, apothem length of 5inches and a height of 13 inches?

    _____

5) Find the base area of the triangular pyramid whose lateral edge is 12meters, apothem length of 6meters and the height is 9meters?

    _____

6) Find the surface area of a triangular pyramid with a base length of $\frac{3}{2}$ inch, apothem length of $\frac{3}{5}$ inch and a slant height of $\frac{8}{5}$ inch.

    _____

7) Find the surface area of a triangular pyramid with a base length of 10centimeters, apothem length of 5centimeters and a slant height of 30centimeters.

    _____

8) What is the base area of the triangular pyramid whose lateral edge is 35yards, apothem length of 7yards and the height is 28yards?

    _____

Surface Area of a Triangular Pyramid

Name:_____

Date:_____

To find the surface area of a triangular pyramid $\left(SA = A + \frac{3}{2}bs\right)$.

1) Find the surface area with a base length of 5centimeter, apothem length of 3centimeter and a slant height of 10centimeter.

   82.5 square centimeters

2) The surface area of a triangular pyramid is given by 666square meters, apothem length of 8meters and the side of the pyramid is 18meters. Find the slant height of the triangular pyramid.

   22 meters

3) The surface area of a triangular pyramid is 402square centimeters, apothem length of 7centimeters and the side of the square is 12centimeters. Find the slant height of the triangular pyramid.

   20 centimeters

4) Find is the slant height of a triangular pyramid with a base area of 32.5 square inches, apothem length of 5inches and a height of 13 inches?

   25 inches

5) Find the base area of the triangular pyramid whose lateral edge is 12meters, apothem length of 6meters and the height is 9meters?

   27 square meters

6) Find the surface area of a triangular pyramid with a base length of $\frac{3}{2}$ inch, apothem length of $\frac{3}{5}$ inch and a slant height of $\frac{8}{5}$ inch.

   4.05 square inches

7) Find the surface area of a triangular pyramid with a base length of 10centimeters, apothem length of 5centimeters and a slant height of 30centimeters.

   475 square centimeters

8) What is the base area of the triangular pyramid whose lateral edge is 35yards, apothem length of 7yards and the height is 28yards?

   98 square yards