Surface Area of a Pentagonal Pyramid

Name:_____   Date:_____

To find the surface area of a pentagonal pyramid (A = $\frac{5}{2}$ab + $\frac{5}{2}$bs).

1) Find the surface area with a base length of 8.5centimeter, apothem length of 3.4centimeter and a slant height of 11.8centimeter.

   _____

2) The surface area of a pentagonal pyramid is given by 1009.8square meters, apothem length of 6.7meters and the side of the pyramid is 15.3meters. Find the slant height of the pentagonal pyramid.

   _____

3) The surface area of a pentagonal pyramid is 987.7square centimeters, apothem length of 5.4centimeters and the side of the square is 11.9centimeters. Find the slant height of the pentagonal pyramid.

   _____

4) Find the slant height of a pentagonal pyramid with a base area of 280.35square inches, apothem length of 8.9inches and a height of 12.6inches?

   _____

5) Find the base area of the pentagonal pyramid whose lateral edge is 15.4meters, apothem length of 2.9meters and the height is 3.8meters?

   _____

6) Find the surface area of a pentagonal pyramid with a base length of $\frac{6}{15}$ inch, apothem length of $\frac{3}{20}$ inch and a slant height of $\frac{5}{4}$ inch.

   _____

7) Find the surface area of a pentagonal pyramid with a base length of 8.8centimeters, apothem length of 4.5centimeters and a slant height of 13.5centimeters.

   _____

8) What is the base area of the pentagonal pyramid whose lateral edge is 22.3yards, apothem length of 6.9yards and the height is 12.4yards?

   _____

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To find the surface area of a pentagonal pyramid (A = $\frac{5}{2}$ab + $\frac{5}{2}$bs).

1) Find the surface area with a base length of 8.5centimeter, apothem length of 3.4centimeter and a slant height of 11.8centimeter.

   _____323_ square centimeters_____

2) The surface area of a pentagonal pyramid is given by 1009.8square meters, apothem length of 6.7meters and the side of the pyramid is 15.3meters. Find the slant height of the pentagonal pyramid.

   _____19.7 meters_____

3) The surface area of a pentagonal pyramid is 987.7square centimeters, apothem length of 5.4centimeters and the side of the square is 11.9centimeters. Find the slant height of the pentagonal pyramid.

   _____27.8 centimeters_____

4) Find the slant height of a pentagonal pyramid with a base area of 280.35square inches, apothem length of 8.9inches and a height of 12.6inches?

   _____18.3 inches_____

5) Find the base area of the pentagonal pyramid whose lateral edge is 15.4meters, apothem length of 2.9meters and the height is 3.8meters?

   _____27.55 square meters_____

6) Find the surface area of a pentagonal pyramid with a base length of $\frac{6}{15}$ inch, apothem length of $\frac{3}{20}$ inch and a slant height of $\frac{5}{4}$ inch.

   _____0.619 square inches_____

7) Find the surface area of a pentagonal pyramid with a base length of 8.8centimeters, apothem length of 4.5centimeters and a slant height of 13.5centimeters.

   _____396 square centimeters_____

8) What is the base area of the pentagonal pyramid whose lateral edge is 22.3yards, apothem length of 6.9yards and the height is 12.4yards?

   _____213.9 square yards_____