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) The surface area of a pentagonal pyramid is 939square feet, apothem length of 6feet and the side of the square is 12feet. Find the slant height of the pentagonal pyramid.

_____

2) Find the base area of the pentagonal pyramid whose lateral edge is 15meters, apothem length of 5meters and the height is 7meters?

_____

3) Find the surface area of a pentagonal pyramid with a base length of 16centimeters, apothem length of 7centimeters and a slant height of 19centimeters.

_____

4) Find the surface area of a pentagonal pyramid with a base length of $\frac{2}{5}$ inch, apothem length of $\frac{1}{8}$ inch and a slant height of $\frac{5}{10}$ inch.

_____

5) Find the slant height of a pentagonal pyramid with a base area of 192.5square millimeters, apothem length of 7millimeters and a height of 11millimeters?

_____

6) What is the base area of the pentagonal pyramid whose lateral edge is 24yards, apothem length of 8yards and the height is 14yards?

_____

7) Find the surface area with a base length of 9centimeter, apothem length of 3centimeter and a slant height of 15centimeter.

_____

8) The surface area of a pentagonal pyramid is given by 1243.45square meters, apothem length of 5meters and the side of the pyramid is 13meters. Find the slant height of the pentagonal pyramid.

_____

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

1) The surface area of a pentagonal pyramid is 939square feet, apothem length of 6feet and the side of the square is 12feet. Find the slant height of the pentagonal pyramid.

   25.3 feet

2) Find the base area of the pentagonal pyramid whose lateral edge is 15meters, apothem length of 5meters and the height is 7meters?

   87.5 square meters

3) Find the surface area of a pentagonal pyramid with a base length of 16centimeters, apothem length of 7centimeters and a slant height of 19centimeters.

   1040 square centimeters

4) Find the surface area of a pentagonal pyramid with a base length of $\frac{2}{5}$ inch, apothem length of $\frac{1}{8}$ inch and a slant height of $\frac{5}{10}$ inch.

   0.625 square inches

5) Find the slant height of a pentagonal pyramid with a base area of 192.5square millimeters, apothem length of 7millimeters and a height of 11millimeters?

   28.2 millimeters

6) What is the base area of the pentagonal pyramid whose lateral edge is 24yards, apothem length of 8yards and the height is 14yards?

   280 square yards

7) Find the surface area with a base length of 9centimeter, apothem length of 3centimeter and a slant height of 15centimeter.

   405 square centimeters

8) The surface area of a pentagonal pyramid is given by 1243.45square meters, apothem length of 5meters and the side of the pyramid is 13meters. Find the slant height of the pentagonal pyramid.

   33.26 meters