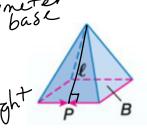
12.3 Surface Areas of Pyramids and Cones



o Lateral Area:

L= = Pl



o Surface Area:

S= = 1 PL + B=

area of base

Ex. 1 Find the lateral area of the square pyramid.

1.10°5

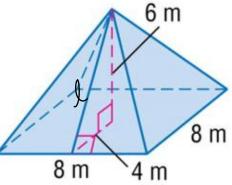
5 cm

2.5 cm

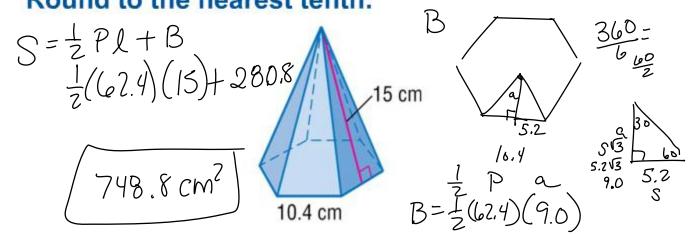
 $\sqrt{25 cm^2}$

Find the surface area of the square pyramid to the nearest tenth.

 $S = \frac{1}{2}PL + B$ $\frac{1}{2} \cdot 32(7.2) + 64$ $S = \frac{1}{2} \cdot 32(7.2) + 64$



Find the surface area of the regular pyramid. Round to the nearest tenth.



- Cones:
 - o Lateral Area: L=∏/人
 - o Surface Area: $S = T \Gamma L + T \Gamma^2$



ICE CREAM A sugar cone has an altitude of 8 inches and a diameter of $2\frac{1}{2}$ inches. Find the

lateral area of the sugar cone.

L=TTYL

TI-1.25(8.1)=
$$8/3/1$$

82+1.25= $1/2$

8.1 = $1/2$

Find the surface area of the cone. Round to the nearest tenth.

