**Acc Geometry**

**Surface Area of Pyramids- Notes**

Prior to lesson:

Pages: 1-4 Cut out and find the area

<http://www.misd.net/mathematics/ImplementingGeometryUnits/3Dimensional/Netspyramidsandprisms.pdf>

Put all work on the work sheet:

<http://www.misd.net/mathematics/ImplementingGeometryUnits/3Dimensional/pyramids.pdf>



**Write the expression for the lateral area and surface area of the regular pyramid.**



Find the lateral area and surface area of each solid. Round to the nearest tenth if necessary.

Example 1:

Example 2:



Example 3: Example 4:



Example 5:



**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_**

**Surface Area of Pyramids- HW**









Real World Problem Solving



1.

2.



3.



4.







7.



8.

 A) Find the height.

B) Find the lateral area.

C) Find the surface area.

 D) Which has the greater lateral area: pyramid of the cube? Explain.



9. 10.

11.



12.

Solutions: 2. 74.2 ft2 3. 86.9 cm2 4. 340cm2 5. 119 cm2 6. 133.6 in2 7. 147.7 ft28. 421.5 cm2 9. 173.2 yd2 10. 86.1 m2 11. 326.9 in2 12. 157.6 cm2 13. 27.7 ft2

Real World Problem Solving:

1. 1040 cm2 2. 1549.2 ft2 3. 2.3in on each side 4. 527,237 ft2 5. 4.98 in2 6. 41.64 in27. 76,452.5 m2 8. A)20ft b)816ft2 c) 960ft2 d) The LA of pyramid is 240 ft2, LA cube= 576ft2. The base of each triangular face of the pyramid is the same length as the square and the height is less than that of the square. Therefore, each square face has a greater area than each triangular face.

9. 600 cm2 10 6.54 in2 11. 36 yd2 12. 144in2