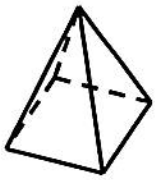
Smiley Face Math
Grade 5, Worksheet V

Name: _____

☺ ☺ ☺ ☺ 1. Look at this diagram of a square pyramid.

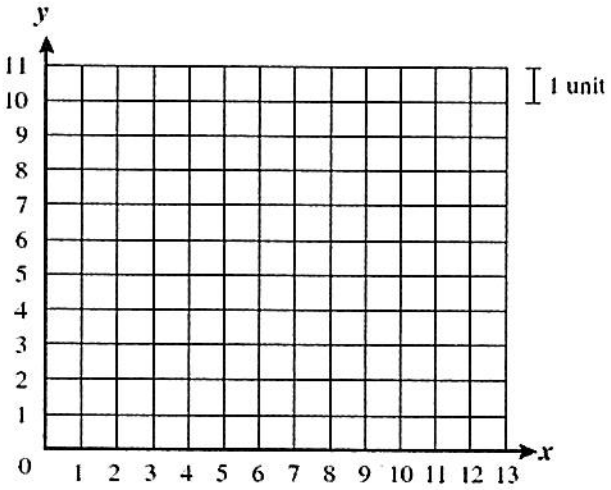
a. How many *faces* does it have? ___
b. How many *edges* does it have ___
c. How many *vertices* does it have ___
d. How many right angles and how many acute angles are on the surface?
_____right angles and ____acute angles



☺ ☺ ☺ 2. Use the coordinate grid below to plot the following points.

A (2,4) B (9,4) C (9,9) D (2,9)

Draw lines to connect points A to B, B to C, C to D, and D to A.



a. What shape did you create? _____

b. What is the *area* of that shape? ____units^2

c. Explain how you found the *area*:

☺ ☺ ☺ 3. Use the same shape from question 2. Draw a line to connect point A to point C.

a. What two shapes do you have now? _____ Shade one of them.

b. How can you use the area of the original shape, to find the area of the shaded shape? Explain:

c. What is the area of the shaded shape? _____units^2

☺ ☺ 4. Lauren collects small clay statues of birds and horses. She accidentally knocked off 10 of her collection one day while cleaning, and picked up 26 legs. How many birds and how many horses did she knock off the shelf?

Answer: She knocked off _____birds and _____horses.

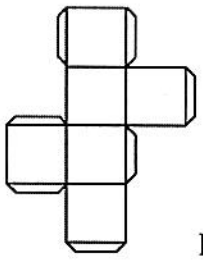
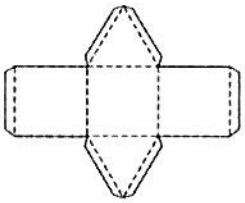
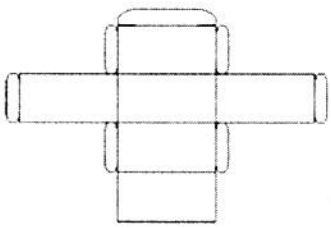
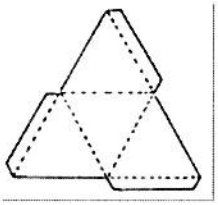
☺ ☺ ☺ 5. Write the missing number to complete the pattern. Use mental math to complete.

a. $450 \div 50 = 9$
$4{,}500 \div 50 = 90$
$45{,}000 \div 50 =$ _____

b. $280 \div 70 =$ _____
$2800 \div 70 = 40$
$28000 \div 70 = 400$

c. Rewrite these six division problems as multiplication problems:

☺ ☺ ☺ ☺ 6. Match the following *nets* with the correct solid object: When each *net* is cut out, folded, and taped using the tabs shown, it forms one of these figures.

A.  B.  C.  D. 

Rectangular Prism: _____ Cube _____

Triangular Prism: _____ Triangular Pyramid _____

Name one thing that all the *faces* have in common: