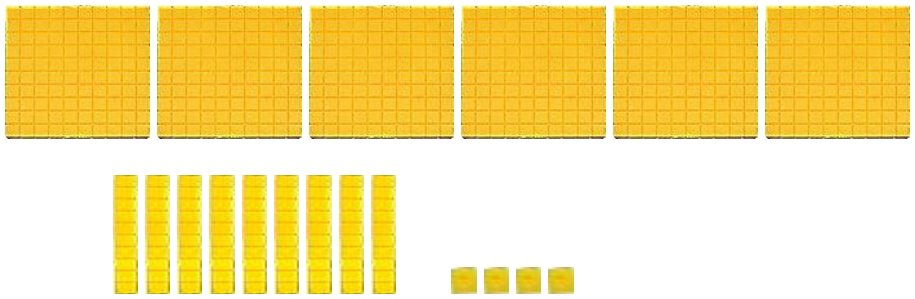
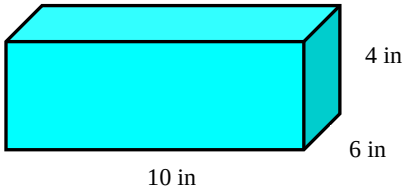
Smiley Face Math **Name:** _____
Grade 5, Worksheet I

☺ 1. Show with the base ten blocks below that the quotient 694 ÷ 3 is 231 r 1.

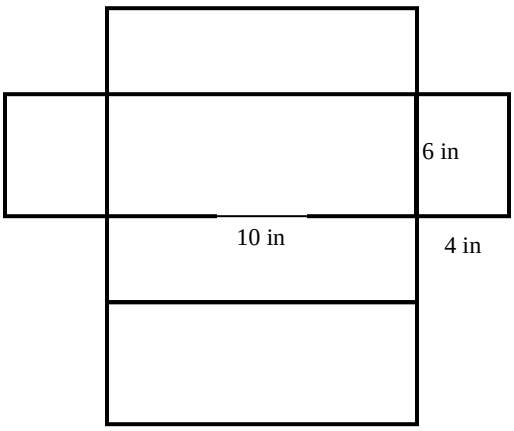


☺ ☺ ☺ 2. A typical adult shoe box from the store is 10 inches long by 6 inches wide by 4 inches high. What is the *volume* of such a shoe box, in cubic inches? I.e., how many cubes, 1 inch on a side, would fit inside the box?



Answer: ____ inches^3

☺ ☺ ☺ ☺ 3. The *surface area* of a box is the area of a *net* that would cover the outside of the box, like wrapping paper. Label the dimensions of each face of the *net* for the box above, and find the total *surface area* of the six faces. (The *area* is how many 1-inch by 1-inch squares that would cover the outside surface.)



Answer: ____ inches^2

☺ ☺ ☺ ☺ 4. Carson and his parents ordered pizza last night. They ordered a large pizza with tomatoes and onions. The cook cut the pizza into 12 equal slices. Carson ate ¼ of the pizza, his father ate ⅓ of the pizza, and his mother ate 1/6 of the pizza.

a. Write a fraction number sentence for the pizza they ate all together: _____

b. Find the answer, as a fraction, for your number sentence: ____ of the pizza

c. Write a fraction number sentence for the amount of pizza left: _____

d. Find the answer, as a fraction, for your number sentence: ____ of the pizza.

☺ ☺ 5. B.J. Upton is building a batting cage in his backyard. He has to install a net all around it so that balls don't go into his neighbor's yards. The batting cage will be a rectangular shape 11.75 meters long and 9.25 meters wide. How much netting does Upton need to go completely around the batting cage? _____ meters

Explain how you found your answer: Draw a picture to help.

☺ ☺ ☺ ☺ 6. A *prime number* of tiles is one where, if you try to make rectangles from that number of tiles, you can only make a "1–by–that number" type of rectangle. For example, 7 is a *prime number* of tiles because you can only make a 1–by–7 rectangle from seven tiles. Experiment with these numbers of tiles and decide if they are *prime numbers* or not. Circle those that *are* prime.

6 tiles 11 tiles 12 tiles 13 tiles

☺ ☺ 7. If a fraction has a *prime number* as its denominator, then you can't find another name for the fraction with a smaller denominator. Circle the fractions below that have a *prime number* as the denominator:

$\frac{4}{6}$ $\frac{4}{11}$ $\frac{8}{12}$ $\frac{6}{13}$