SUNSHINE MATH - 6
Uranus, VII

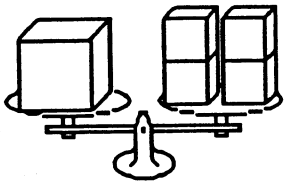
Name: _____

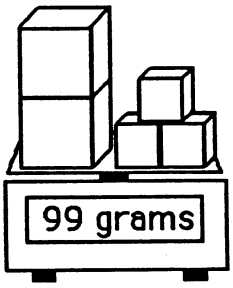
(This shows my own thinking.)

★★ 1. A winning basketball team earned 336 points in the first 4 games last season. One-eighth of their points were made on 3-point shots. How many 3-point baskets had they made after four games?

Answer: _____ baskets

★★★ 2. Each large block below weighs the same amount. Each small block weighs the same amount. From looking at the pictures, find the weight of both the small and large blocks.





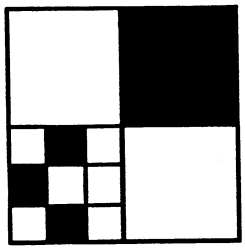
Answer: A small block weighs _____ grams.

A large block weighs _____ grams.

★★★ 3. What is the probability that you will roll a sum of 7 on one roll of a standard pair of dice?

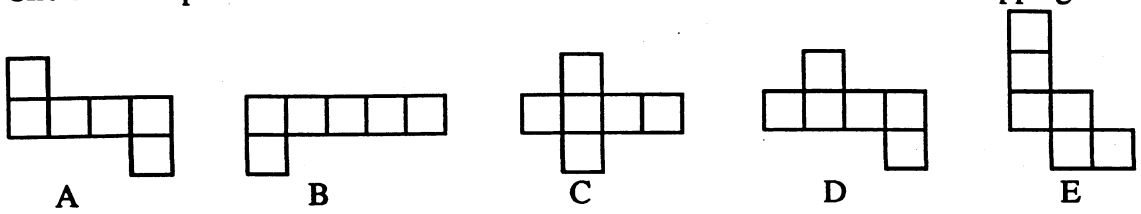
Answer:_____

★★ 4. In lowest terms, what fraction of the large square is shaded?



Answer: _____

★★ 5. Circle the shapes below that can be folded to form a closed box with no overlapping sides.

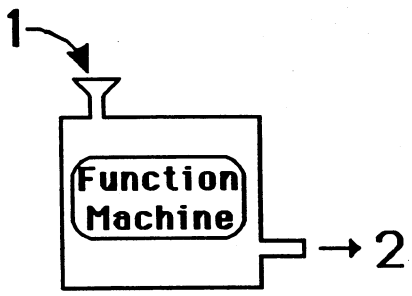


★ 6. Alfonso took a 40 question test. How many can he miss and still make an 85%?

Answer:_____ questions can be missed.

★★★ 7. A function machine is set up so that when an ***input number*** is dropped into the machine, a predictable ***output number*** comes out. When 1 is dropped in, for example, 2 comes out. Study the pattern of input and output numbers in the chart below, and fill in the missing numbers.

INPUT	OUTPUT
1	2
2	5
3	10
4	17
5	
6	
7	



★★★ 8. a. For the function machine in problem 7, what number was the ***input*** number for the ***output*** number 101? _____

b. If the input number is called *n*, what would the *output* number be?____

★ 9. Beth, Michael, Gale, Maria, and Dot are all different ages. Gale is older than Beth and younger than Michael. Maria is older than Michael. Dot is older than Beth and younger than Gale. List the names of the 5 people from the oldest to the youngest.

Answer:_____