

**SUNSHINE MATH - 4**  
**Jupiter, XXI**

Name: \_\_\_\_\_  
 (This shows my own thinking.)

- ★★★ 1. A cricket and a flea decided to hop on a set of stairs. The flea takes 2 steps in 1 hop. The cricket takes 3 steps in 1 hop. The set of stairs has 12 steps.



- a. On which steps will both the cricket and the flea land?

Answer: \_\_\_\_\_

- b. On which steps will neither of them land?

Answer: \_\_\_\_\_

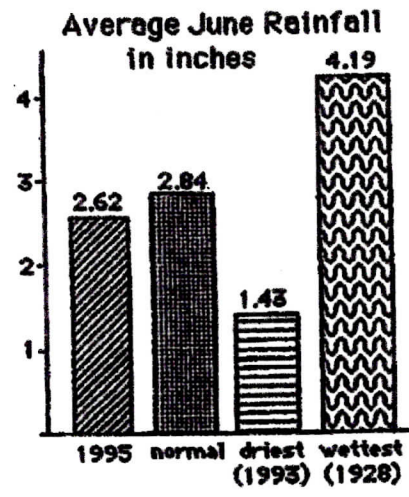
- ★★ 2. A comedian is one of the leading money makers in the entertainment business. If he earns \$92 million for two years' work, how much would he earn for five years' work?

Answer: \$ \_\_\_\_\_ million

- ★ 3. The answer to problem 2 uses a short word name for a large number. Rewrite the answer to problem 2, but do not use "million." Remember -- this answer involves money!

Answer: \_\_\_\_\_

- ★★★ 4. Study the bar graph which shows the average precipitation for the month of June in the United States. Answer the questions pertaining to the graph.



- a. Was June 1995 drier or wetter than normal?

Answer: \_\_\_\_\_

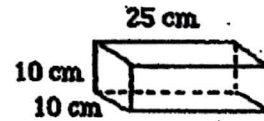
- b. What is the difference in rainfall between the wettest and driest Junes on record?

Answer: \_\_\_\_\_ inches

- c. How many years' difference exists between June 1995 and the wettest June on record?

Answer: \_\_\_\_\_ years

- ★★★ 5. A bricklayer is working with bricks of the size shown to the right. She puts a 2-cm layer of mortar between each row of bricks. How high will the wall be when 10 rows have been laid?



Answer: \_\_\_\_\_ cm

- ★ 6. It is recommended that children from ages 7 to 10 eat about 2000 calories per day. Andy is 8 years old. Listed below is everything Andy ate Tuesday. Did Andy eat less than, more than, or equal to the recommended amount of calories?

**Breakfast**  
cereal (240 cal.)  
milk (225 cal.)  
banana (100 cal.)

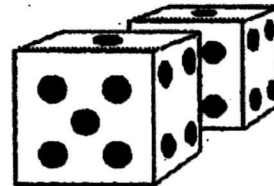
**Lunch**  
Egg-salad sandwich (230 cal.)  
applesauce (53 cal.)  
milk (150 cal.)  
potato chips (105 cal.)

**Snack**  
cheese (114 cal.)  
crackers (20 cal.)  
yogurt (180 cal.)

**Dinner**  
lasagna (330 cal.)  
milk (150 cal.)  
pear (90 cal.)  
ice cream (230 cal.)

Answer: \_\_\_\_\_

- ★★ 7. You can roll two dice at a time, a white one and a red one, and there are 36 different ways for the "up faces" to land. The pair of dice to the right show the only way that a sum of two can come up. How many of ways will give a sum of 7 on the two up faces?



Answer: \_\_\_\_\_ ways

- ★★★ 8. About how many people lying head-to-toe are needed to stretch around the earth? Is it closest to: (a) 1 million, (b) 25 million, or (c) 100 million? (Hint: The distance around the earth is approximately 25,000 miles.)

Answer: \_\_\_\_\_

