SUNSHINE MATH - 5
Saturn, XXVII

Name: _____

(This shows my own thinking.)

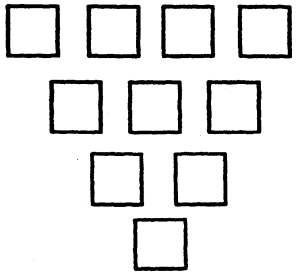
★ 1. Brandon counted 13 kids ahead of him in line to buy concert tickets. He then counted 17 behind him in line. Five more kids got "heads" from someone ahead of him, but then 2 kids behind him dropped out. How many kids were in the line at that point?

Answer : _____

★★ 2. Juan had 7 pennies, 4 dimes, and 3 nickels in his pocket. If he reached into his pocket 10 times, putting the previous coin back each time, which number best indicates how many times you would expect him to pull out a penny? Circle your answer.

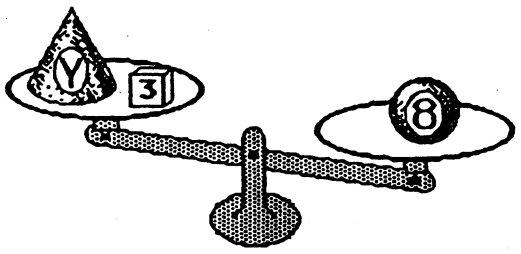
a. 7 b. 10 c. 1 d. 5

★★★★ 3. Place each number from 1 through 10 in a box. Each box must contain a number that is the *difference* of two boxes above it, if there are two above it.



★★ 4. What are the whole numbers that Y might represent on the scale, and the right side would still be heavier? Or, find the whole numbers Y which will make this number sentence true:

$$Y + 3 < 8$$



Answer: _____

★★★★ 5. The first 500 people to visit the baseball game were given their choice of an autographed ball, a cap, a pennant, or a cup with the team logo. $\frac{1}{4}$ chose the ball, $\frac{1}{2}$ chose a cap, $\frac{1}{10}$ chose a pennant. How many of each gift were given away?

Answer: ____ balls, ____ caps, ____ pennants, and ____ cups

★★ 6. Circle the sensible measurement for each item.

thickness of a book	28 mm	28 cm	28 m
height of a flagpole	10 cm	10 m	10 km
distance walked in $\frac{1}{2}$ hour	3 mm	3 kg	3 km
length of a field	30 dm	30 m	30 mm

★ 7. Jay earns $10 each week during the summer mowing lawns in his neighborhood. His parents require him to save 25% of his earnings. If he works 9 weeks during the summer, how much can he expect to save by the end of the summer?

Answer: _____

★★★★ 8. The fifth grade was surveyed to find which pets they liked. The diagram shows the results:

a. How many like dogs and birds but not cats? ____

b. How many like only cats? ____

c. How many like dogs, cats, and birds? ____

d. What is the ratio of students who like all pets to those who answered the survey? _____