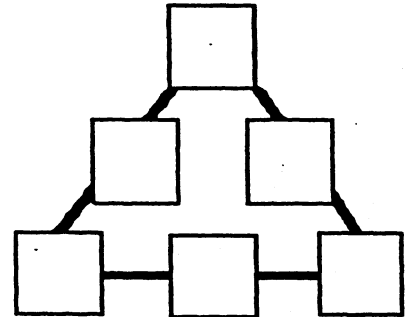


SUNSHINE MATH - 7  
Neptune, VI

Name: \_\_\_\_\_

(This shows my own thinking.)

- ★ 1. Use the fractions  $\frac{5}{6}$ ,  $\frac{1}{3}$ ,  $\frac{1}{2}$ ,  $\frac{1}{6}$ ,  $\frac{2}{3}$ , and 1 so the sum of each side of the triangle is 2.



- ★ 2. The football team played fifteen games this season and won three more games than it lost. How many games did the team lose?

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

- ★★★ 3. Look for a pattern. Use the pattern to predict the value of  $999,999,999 \times 9$ .

$$222,222,222 \times 9 = 1,999,999,998$$

$$333,333,333 \times 9 = 2,999,999,997$$

$$444,444,444 \times 9 = 3,999,999,996$$

Answer:  $999,999,999 \times 9 =$  \_\_\_\_\_

- ★★ 4. If three math students do 3 math problems in 3 minutes, how long will it take 33 students to do 33 problems? (The students are splitting the task.)

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

- ★ 5. You are ordering pizza for 10 people. Each pizza has 8 slices. What is the fewest number of pizzas to order so that everyone gets the same number of whole slices?

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

- ★★ 6. Add only one arithmetic sign (+, -, x, ÷) to make the mathematics sentence true.

$$9 \ 3 \ 4 \ 4 \ 6 \ 3 \ = \ 4 \ 3 \ 2 \ 4 \ 4 \ 2$$

- ★★★ 7. What three consecutive numbers have a sum which is  $\frac{1}{5}$  of their product?

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

- ★★★★ 8. Rose bought some donuts. She gave  $\frac{1}{2}$  of her donuts and  $\frac{1}{2}$  of a donut to her mom. Then she gave  $\frac{1}{2}$  her remaining donuts and  $\frac{1}{2}$  of a donut to her brother. Then she gave  $\frac{1}{2}$  her remaining donuts and  $\frac{1}{2}$  of a donut to her sister. This left her with  $\frac{1}{4}$  dozen donuts. How many donuts did Rose originally buy?

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

- ★★★★ 9. Lu, Roberto, and Sasha had a 1600-meter rollerblading race. A recording device was attached to each one. The graph of the race was plotted on the same axis system, as shown below.

- What was the order in which they finished, 1st to 3rd? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- Who started off the slowest? \_\_\_\_\_ The fastest? \_\_\_\_\_
- At about what time after the race started did Sasha pass Lu? \_\_\_\_\_
- Who raced at the same pace, all the way through? \_\_\_\_\_

