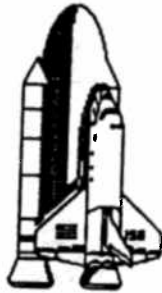


MATH SUPERSTARS - 4

Jupiter, XXV

Name: _____
(This shows my own thinking.)

- ★★ 1. When the Space Shuttle lifts off, it has moved 3 km by the time you clap your hands once. By the time you clap twice, the Shuttle has moved 9 km. By the 3rd clap, it has moved 27 km, and by 4 claps and it has moved 81 km. If this pattern continues, how many km has it moved by the time you have clapped 10 times?

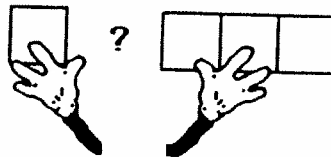


Answer: _____ km

- ★★ 2. Maria needed some magazine pictures for a social studies project. She cut out pages 20, 21, 47, 48, and 104. How many sheets of paper did she remove from the magazine?

Answer: _____

- ★★★ 3. Draw three different ways to put four square tiles together. Each tile must be connected to at least one other tile along an entire side. What is the perimeter of each arrangement? What is the area of each arrangement?



↑
Drawing 1

perimeter: _____
area: _____ sq units

↑
Drawing 2

perimeter: _____
area: _____ sq units

↑
Drawing 3

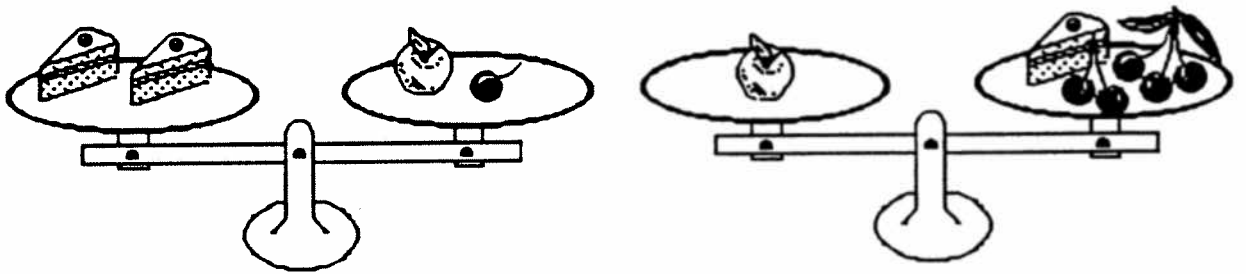
perimeter: _____
area: _____ sq units

- ★★ 4. Ms. Croskey just put her students in groups of three. Tia, Jonathon, and Courtney are in a group together and are arguing over who is going to sit by whom. How many ways can the three students be arranged in the chairs?



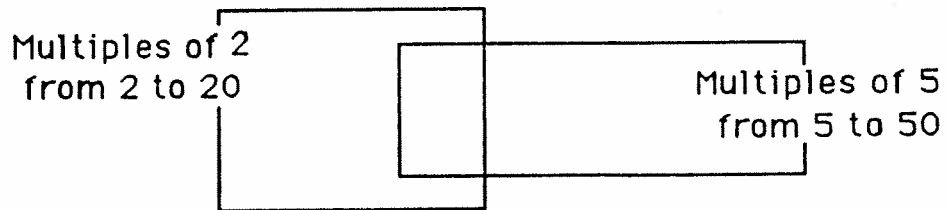
Answer: _____ ways

- ★★★ 5. Two pieces of cake weigh as much as one apple and one cherry. One apple weighs as much as five cherries and one piece of cake. How many cherries weigh as much as one apple?



Answer: _____ cherries = 1 apple

- ★★★ 6. Fill in the Venn Diagram to represent the data provided.



- ★★ 7. Find two numbers that add to 19 and multiply to 84.

Answer: _____ and _____

- ★★★ 8. Shirley has 18 coins. One sixth of the coins are quarters, one third of the coins are dimes, and one half of the coins are nickels. What is the value of Shirley's coins?

Answer: _____