

# MATH SUPERSTARS - 3

Mars, VII

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

(This shows my own thinking.)

- ★ 1. Find the mystery number (?) using the relationships shown:

$28 : 7$

$20 : 5$

$16 : 4$

$12 : ?$

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

- ★★ 2. John is helping his father box up used golf balls for a special sale. Each box will hold 6 golf balls. How many boxes will they need to box up 52 golf balls?

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

- ★★★★ 3. Solve the following magic squares. The sum across each row, and down each column, must be the same sum as the sum along the diagonal. (Place the numbers in the boxes)

	1	8
	5	3
2		

12		14
	11	
	15	10

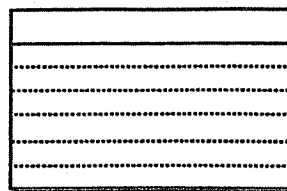
- ★★ 4. Ricardo is 4 years older than his sister Rosa. If their ages are added together, the sum is 14. What are the ages of Ricardo and Rosa?

Answer: Ricardo is \_\_\_\_\_ years old.

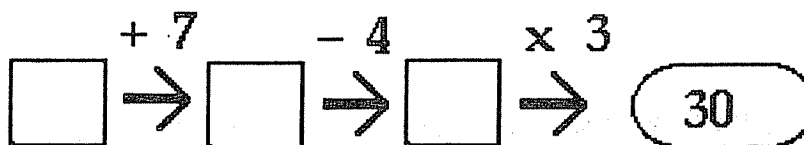
Rosa is \_\_\_\_\_ years old.

- ★★★★ 5. An index card is shown to the right. How many rectangles are formed on this card?

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



- ★★ 6. What is the starting number in this puzzle?



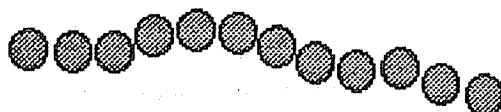
Answer: \_\_\_\_\_

- ★★ 7. How many 3-digit numbers can be made using the following digits only once in each number?

Use the digits: 2, 3, 4

Answer: \_\_\_\_\_ numbers can be made

- ★★★ 8. Pam is using beads to make a necklace. The bowl contains 40 yellow beads, 20 blue beads, and 40 red beads. If she uses *half* of each color that is in the bowl, how many beads of each type will she use?



Answer: She will use \_\_\_\_\_ yellow, \_\_\_\_\_ blue, and \_\_\_\_\_ red beads.