

MATH SUPERSTARS – 6

Uranus, III

Name: _____

(This shows my own thinking.)

- ★ 1. The Adrians were going to grandmother's house for Thanksgiving. They traveled 283 miles in 6 hours. Did they average more or less than 50 miles per hour?

Answer: _____

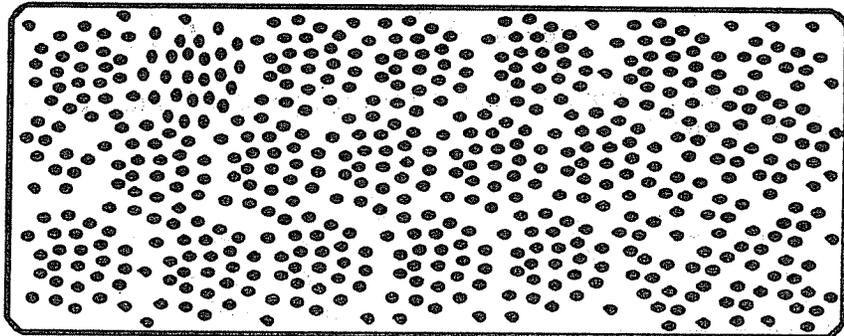
- ★★★ 2. Martha bought a \$60 skirt at 40% off and a \$40 blouse at 20% off. What percent discount did she receive on the total purchase?

Answer: _____

- ★★ 3. ^{Estimate} ~~Count~~ the dots. Explain how you found this estimate.

Answer: _____ dots

Explain:



- ★★ 4. When 3 times a certain number n is added to 6, the sum is 20 more than the original number. What is the number n ?

Answer: $n =$ _____

- ★★ 5. On February 19, the temperature in Orlando was 78° Fahrenheit. In Fairbanks, Alaska, the temperature was -49° F. What was the difference in these temperature readings?

Answer: _____ $^{\circ}$ F

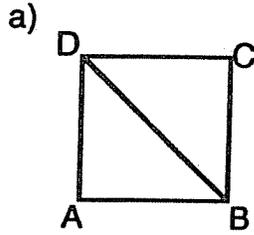
- ★★★ 6. Mrs. Gonzales has three children whose names are Javier, Juan, and Rosa. Their mean age is 11. Their median age is 10. Rosa is 15 years old. What is the age of the youngest child?

Answer: _____

★★★ 7. These values were used to find the total score for the figures in the examples below:

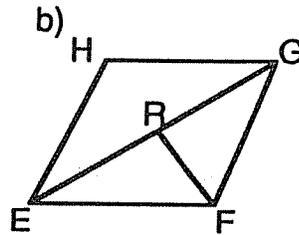
Triangle = 3 points
 Quadrilateral = 4 points
 Pentagon = 5 points
 Hexagon = 6 points

Examples:



2 triangles
 1 quadrilateral

Score = 10

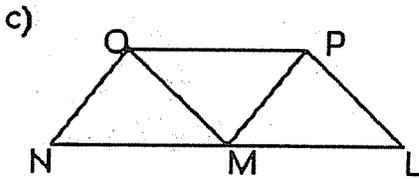


4 triangles
 1 quadrilateral
 2 pentagons

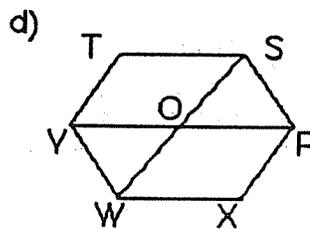
Score = 26

Total Score = 36

Now you do these. Find the total score for figures c and d. Add the scores for c and d and give the total score.



Score _____



Score _____ Total Score: _____

★ 8. Write what goes in the if $a = 4$.

$$3 + a + 7 - 5 + 10 + a - a = \text{$$

★★★ 9. If two prime numbers differ by 2, they are called TWIN PRIMES. List all the twin primes less than 50.

Answer: 3 & 5, _____