

SUPERSTARS III

Pluto, V

Name: _____

(This shows my own thinking.)

- ★★1. Show how to make a sum of exactly 100 by using only 15, 21, 24, 27, or 31. Any or all may be used more than once.

Answer: _____

- ★★★★2. A 200-pound farmer and his two 100-pound daughters were on one side of a river and had to get to the other side. The only way to cross was on a boat that only held 200 pounds safely.

- a. What is the fewest number of crossings it will take to get them all on the other side?
b. Describe who goes on each crossing, to get the fewest number of crossings above.

Answer : a. _____

b. _____

- ★★★3. From the manufacturer, we know the ratio of yellow M&Ms to orange M&Ms made is 4 to 7. If 56 orange M&Ms are in a large package, about how many yellow M&Ms would be in the package?

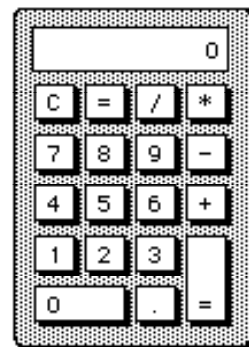
Answer: _____yellow M&M's

- ★★4. Use a calculator to find the answer to:

$$(13450 + 0.36) - (6 \times 2141.06).$$

Then turn the calculator upside down to find an animal.

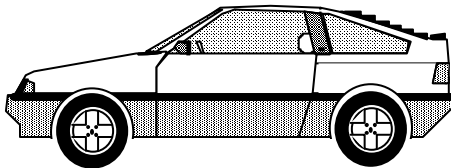
Answer: The animal is a _____.



★★★5. If $x + y = 12$ and $x - y = 8$, find the product of x and y .

Answer: _____

★★6. Lori and Tim bought a new car at an “end-of-the-year closeout-sale” for “dealer cost plus 8%.” If they paid \$18,036, what was the dealer's cost?



Answer: \$_____

★★★ 7. Jason worked 6 days. The first day he was paid \$200. Each day thereafter he was paid $\frac{1}{2}$ of what he made the day before. What was his total wage ?

Answer: \$_____

★★8. How many diagonals are in a regular decagon?

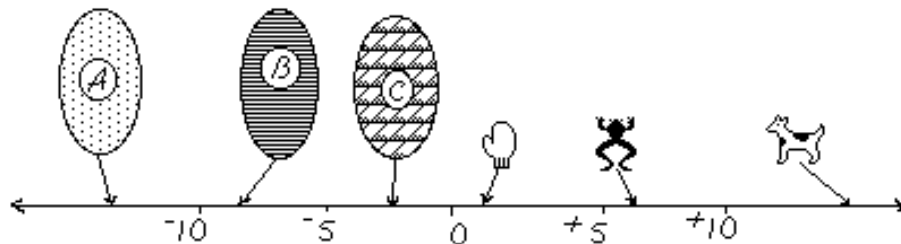
Answer: _____diagonals

★9. What common word can be spelled out by the letters on a compass?



Answer: _____

★★★10. Approximately what number is represented by each object below:



Answer: A is ___; B is ___; C is ___; mitt is ___; frog is ___; dog is ___