

SUNSHINE MATH - 8
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. Replace A, B, and C with numbers so that:

$$\begin{aligned} A \times A &= B \\ B - A &= C \\ A + A &= C \end{aligned}$$

Answer: ___ x ___ = ___
 ___ - ___ = ___
 ___ + ___ = ___

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

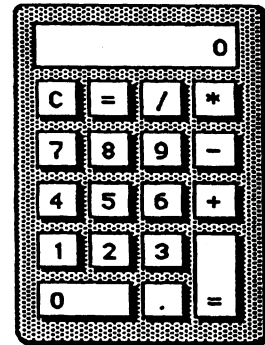
Answer: _____ yellow M&M's

- ★★ 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.

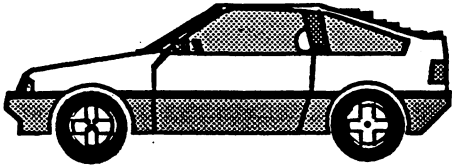
Answer: The animal is a _____.



- ★★★ 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?

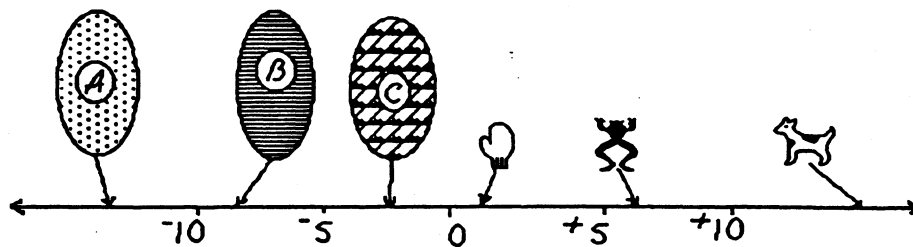
Answer: _____ diagonals

- ★ 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 ___