## SUNSHINE MATH - 8 Pluto, III

	(This	shows	mv own	thinking.)	
Name:					

**	1.	If	ΑΔΒ	$=A^2+$	2AB +	- B <sup>2</sup> ,	evaluate	4Δ	5.
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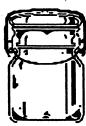
Answer: \_\_\_\_\_

★ 2. Express 2.7 as a common fraction.

Answer:

★★ 3. In a factory, a machine can fill 180 jars in 15 minutes. How many jars can be filled in 100 minutes?

Answer: \_\_\_\_ jars



★★ 4. What is the mode of this list of 16 numbers? Answer: \_\_\_\_\_

## 2 4 7 8 2 10 7 2 5 3 6 8 5 1 0 1

★ 5. If I dig a hole 4 meters square and 2 meters deep, how much dirt is in the hole?



Answer: cubic meters

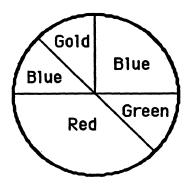
★★ 6. Sherry was playing a card game with her friends. She needed to draw a diamond greater than 10 to win the game. If she draws from a full standard deck of cards, what is the probability of her winning?

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

\*\* 7. Replace R, M, and S with numerals to make a true equation.

Answer:  $R = __, M = __, S = __$ 

\*\*\* 8. Study the dart board below. Find the probability of hitting each color when a dart is thrown. Write the answer as a fraction in lowest terms.



Answer: Gold \_\_\_\_\_
Green \_\_\_\_

Red \_\_\_\_

Blue \_\_\_\_

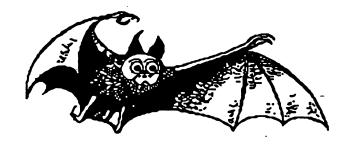
Blue or Gold \_\_\_\_

Orange \_\_\_\_

\*\*\* 9. There are fewer than 6 dozen Blow Pops in my bag. If I count them by 2's, there is 1 left over. If I count them by 3's, there are 2 left over. There are 3 left over if I count by 4's. Four are left if I count by 5's. How many Blow Pops are in my bag?

Answer:\_\_\_\_\_blow pops

★★★ 10. A bat ate 208 bugs in 4 days. Each day she ate 20 more than the previous day. How many bugs did she eat each day?



Answer: day 1: \_\_\_bugs; day 2: \_\_\_bugs; day 3: \_\_\_bugs; day 4: \_\_\_bugs