SUNSHINE MATH - 8 Pluto, IV

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Name:				

★ 1. Move one of the three popsicle sticks to make a true equation. Use arrows to show which one you move and how you move it.



- $\star\star\star$ 2. You can make up for being late to Mr. Reeves' class if you are well prepared upon arriving. His formula for how many minutes of detention you must serve is m=30-5x. This formula allows 5 minutes off the 30-minute punishment for each question you answer correctly in class.
 - a. What does x stand for in the formula?
 - b. What does m stand for in the formula?
 - c. If you are tardy but answer 2 questions correctly in class, how long is your detention? ____ minutes
 - d. If you are tardy, how many questions must you answer in class so that you have no detention to serve? ____ questions
- $\star\star\star$ 3. Farmer Henson needs to fence in a small area to make a horse pen. The pen needs to be about 900 ft² in area for the horse to be comfortable for a short time. To the nearest foot, how much fencing will he need if the pen is circular in shape? Use 3.14 for π .

Answer: _____ feet of fencing

*** 4. A diver is working 10 feet below the surface of the water. The gap between the water and the deck of his support barge is $\frac{1}{8}$ of the total length of air hose, and $\frac{2}{3}$ of the total length remains on the reel. What is his maximum working depth without a change of equipment?

Answer: _____ feet

★ 5. There are twelve \$0.29 stamps in a dozen stamps. How many \$0.32 stamps are in a dozen?

Answer: _____ stamps

★ 6. At a pharmacy, Mrs. Dull paid \$2.35 for a toothbrush, \$1.30 for a comb and \$4.99 for shampoo. The sales tax is 6%. Find the change she should receive from a ten-dollar bill.

Answer:

★★★ 7. Georgia solved a problem in her math homework that gave her an answer of 0.425 but the problem asks for the answer to be a common fraction. What would that fraction be?

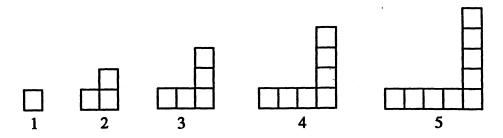
Answer: ____

★★ 8. How much larger is 3^4 than 4^3 ?

Answer: ____

★★★9. Study the relationship between the figure number, its area, and its perimeter. Then answer the questions below the figures.

Figure Number	1	2	3	4	5	6 33	
area	1	3	5	7	9	11 65	
perimeter	4	8	12	16	20	24 132	



- a. What is the area for figure 100? _____ What is its perimeter? _____
- b. What is an algebraic expression for the area of figure number n?
- c. What is an algebraic expression for the perimeter of figure number n?