Math Madness #75

1. If the rule for this table is to multiply the input number by 2 and then subtract 1, which set of numbers belongs in the output column? a. 5, 9, 13, 17 b. 3, 9, 14, 19 c. 0, 2, 4, 6 d. 3, 7, 11, 15	 5. Mr. Chi has pipe sections that are each ¹/₈ yard long. If he connects the pipe sections together to make a 2 yard long stretch of piping, how many ¹/₈ yard sections will he use? a. 4 b. 8 c. 12 d. 16
 2. This chart shows the population of three North Carolina cities. Which of the following shows these populations in the correct order? a. 255,000 > 222,655 > 209,009 b. 255,000 > 209,009 > 222,655 c. 209,009 > 222,655 > 255,000 d. 222,655 > 255,000 > 209,009 	6. What is the length of side x? a. $1\frac{1}{8}$ cm b. $2\frac{5}{8}$ cm $5\frac{3}{8}$ cm $3\frac{2}{8}$ cm c. $2\frac{1}{8}$ cm d. $8\frac{5}{8}$ cm
 3. Last year a soda plant bottled 1,346,455 bottles of root beer and 943,906 bottles of limeade. How many more bottles of root beer were bottled than limeade? a. 402,549 b. 402,551 c. 403,549 d. 403,551 	7. This line plot shows the length of different paint brushes in Ms. Lee's art room. What is the difference in length between the longest and shortest paint brush? a. $\frac{1}{3}$ in. c. $\frac{5}{6}$ in. b. $\frac{3}{4}$ in. d. $\frac{12}{12}$ in. $\begin{array}{r} \textbf{Ms. Lee's Paint Brushes} \\ \textbf{x} $
 4. The distance around the block is ²/₃ mile. How many times will Mr. Arnold need to walk around the block if his goal is to walk 4 miles? a. 5 b. 6 c. 7 d. 8 	 8. Which polygon has exactly one pair of perpendicular lines? a. b. c. d. A. D. C. d.
9 & 10 (2 points) Short Answer / Extended Response What is the value of 8 × (z + 6) if z = 4? Explain how you found the answer.	