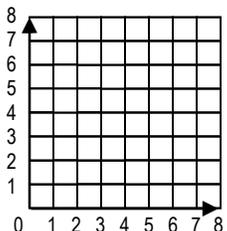


MATH MADNESS # 75

<p>1. Which expression best describes this pattern?</p> <p style="text-align: center;">116, 60, 32, 18, 11</p> <p>a. $(y \div 2) + 2$ b. $(y \div 2) - 2$ c. $(y \times 2) + 2$ d. $(y \times 2) - 2$</p>	<p>5. A pitcher holds $4\frac{1}{2}$ cups of water. Chuck has a measuring cup that holds $\frac{1}{4}$ cup of water. How many times will Chuck need to fill the measuring cup in order to completely fill the pitcher?</p> <p>a. 16 b. 18 c. 20 d. 22</p>
<p>2. Which number could be written in the blank to make this statement true?</p> <p style="text-align: center;">$2.98 + 4.0 + 0.56 < \underline{\hspace{2cm}}$</p> <p>a. 7.55 b. 7.05 c. 6.55 d. 6.05</p>	<p>6. Darius bought 3.5 kilograms of chicken. Which of the following is equal to 3.5 kilograms?</p> <p>a. 35 grams b. 350 grams c. 3,500 grams d. 35,000 grams</p> <p style="text-align: right; font-size: small;">Helpful Hint: 1 kg = 1,000g</p>
<p>3. Crystal charges \$6.50 per day to pet sit 1 pet. She charges \$4.75 a day to pet sit each additional pet. How much did Crystal earn pet sitting 2 pets for 1 week?</p> <p>a. \$ 11.25 b. \$ 56.25 c. \$ 71.75 d. \$ 78.75</p>	<p>7. Sherri drew a triangle. One angle measured 40° and another angle measured 30°. Which is true about the measure of the third angle?</p> <p>a. The third angle must be an acute angle. b. The third angle must be a right angle. c. The third angle must be an obtuse angle. d. Not enough information is given to answer this question.</p>
<p>4. Allison drank $\frac{5}{8}$ of a pint of juice. Tara drank $\frac{1}{4}$ of a pint less than Allison. How much juice did they drink in all?</p> <p>a. $\frac{1}{4}$ pint b. $\frac{7}{8}$ pint c. 1 pint d. $1\frac{1}{4}$ pints</p>	<p>8. Graph the points with the following coordinates and connect them in the order given. $(2,2) \rightarrow (2,6) \rightarrow (5,6) \rightarrow (5,4) \rightarrow (2,2)$</p> <p>What polygon is created?</p> <p>a. square b. parallelogram c. trapezoid d. rhombus</p> <div style="text-align: right;">  </div>

9 & 10 (2 points) Short Answer / Extended Response

In the equation below, ☆ represents one number and ☺ represents another number.

☆ × ☆ = 36 ☆ × ☺ = 84

What is the value of ☆ ? _____

What is the value of ☺ ? _____

What is the sum of 3 ☆ and 12 ☺ ? _____