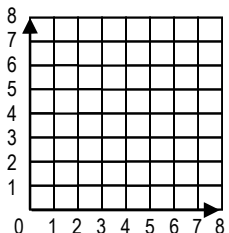


# MATH MADNESS # 75

<p>1. Which expression best describes this pattern?</p> <p style="text-align: center;"><b>116, 60, 32, 18, 11</b></p> <p>a. <math>(y \div 2) + 2</math>          b. <math>(y \div 2) - 2</math>          c. <math>(y \times 2) + 2</math>          d. <math>(y \times 2) - 2</math></p>	<p>5. A pitcher holds <math>4\frac{1}{2}</math> cups of water. Chuck has a measuring cup that holds <math>\frac{1}{4}</math> 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;"><b><math>2.98 + 4.0 + 0.56 &lt; \underline{\hspace{2cm}}</math></b></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 <math>40^\circ</math> and another angle measured <math>30^\circ</math>. 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 <math>\frac{5}{8}</math> of a pint of juice. Tara drank <math>\frac{1}{4}</math> of a pint less than Allison. How much juice did they drink in all?</p> <p>a. <math>\frac{1}{4}</math> pint          b. <math>\frac{7}{8}</math> pint          c. 1 pint          d. <math>1\frac{1}{4}</math> pints</p>	<p>8. Graph the points with the following coordinates and connect them in the order given.  <math>(2,2) \rightarrow (2,6) \rightarrow (5,6) \rightarrow (5,4) \rightarrow (2,2)</math></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 ☺ ? \_\_\_\_\_