Math Madness #100

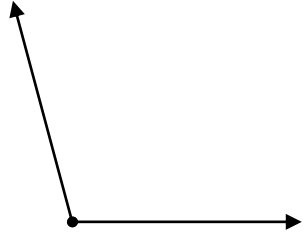**1.** Four out of ten children on a soccer team are girls. Which decimal and fraction describe the number of girls on the team?

  a. 0.04 and $\frac{4}{10}$

  b. 0.04 and $\frac{1}{4}$

  c. 0.4 and $\frac{4}{10}$

  d. 0.4 and $\frac{1}{4}$

2. Which set of numbers is ordered from *greatest* to *least*?

  a. 0.093,   0.49, $\frac{3}{5}$, $2\frac{1}{2}$

  b. $2\frac{1}{2}$, $\frac{3}{5}$,   0.49,   0.093

  c. $2\frac{1}{2}$,   0.49, $\frac{3}{5}$,   0.09

  d. $\frac{3}{5}$, $2\frac{1}{2}$,   0.093,   0.49

3. Diana has 18.942 gallons of water that she will divide equally into 6 jugs. How much water will Diana pour into each jug?

  a. 0.3157 gallon
  b. 3.157 gallons
  c. 31.57 gallons
  d. 315.7 gallons

4. A baker uses $\frac{3}{5}$ cup of sugar for each batch of cookies she bakes. How much sugar is needed if she bakes 10 batches of cookies?

  a. 2 cups
  b. 3 cups
  c. 5 cups
  d. 6 cups

5. Ulla drew this angle. Using a protractor, measure the angle she drew.
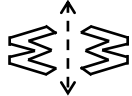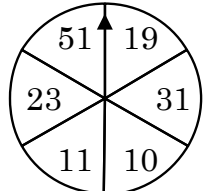
  Which best describes the angle?
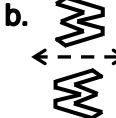
  a. obtuse angle; 105°
  b. acute angle; 105°
  c. obtuse angle; 95°
  d. acute angle; 95°

6. Which of these does *not* show a reflection across the dashed line?

  a.   b.   c.   d.

7. What is the probability the spinner below will land on a prime number?

  a. $\frac{1}{2}$

  b. $\frac{1}{3}$

  c. $\frac{2}{3}$

  d. $\frac{5}{6}$

  Spinner sections: 51, 19, 23, 31, 11, 10

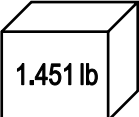**8.** Which number sentence represents the statement below?

  The quotient of *x* and *y* is eight.

  a. $x + y = 8$
  b. $x - y = 8$
  c. $\frac{x}{y} = 8$
  d. $xy = 8$

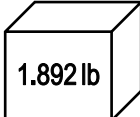**9 & 10 (2 points) Short Answer / Extended Response**

The table to the right shows the cost of mailing different packages. To find the shipping cost, the weight of packages must be rounded to the nearest tenth of a pound.

What is the weight of each package rounded to the nearest tenth of a pound? How much will it cost to ship each package? What will it cost to mail all three packages?
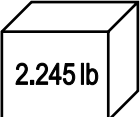
Shipping Fees	
Weight	**Cost**
1.1 – 1.4 lb	$2.25
1.5 – 1.8 lb	$2.50
1.9 – 2.2 lb	$2.75
2.3 – 2.6 lb	$3.00

Package 1: 1.451 lb   Package 2: 1.892 lb   Package 3: 2.245 lb

Weight:___**1.5 lb**___   Weight:___**1.9 lb**___   Weight:___**2.2 lb**___

Cost:___**$2.50**___   Cost:___**$2.75**___   Cost:___**$2.75**___   Total Cost:___**$8.00**___