

# MATH MADNESS # 50

1. How many zeros must be in the product of the expression shown below?

$$10^3 \times 10^2$$

- a. 1
- b. 5**
- c. 6
- d. 7

5. Which equation describes the relationship between the patterns?

**C = 0, 8, 16, 24, 32**  
**D = 0, 2, 4, 6, 8**

- a.  $D = 4 + C$
- b.  $D = 4 - C$
- c.  $D = \frac{1}{4} \div C$
- d.  $D = \frac{1}{4} \times C$**

2. Terrance ran a 10-mile race. After running  $\frac{3}{4}$  of the race he stopped for water. After finishing the water, how much farther did Terrance have to run?

- a. 2 miles
- b.  $2\frac{1}{2}$  miles**
- c. 7 miles
- d.  $7\frac{1}{2}$  miles

6. Finn drew an equilateral triangle with a perimeter of 24 **centimeters**. What is the length of each side of the triangle in **meters**?

- a. 0.008
- b. 0.08**
- c. 0.8
- d. 8

Helpful Hint: 1 m = 100 cm

3. On Mars, your weight is about  $\frac{1}{3}$  your weight on Earth. If Mr. Leeper weighs 156 pounds on Earth, about how much would he weigh on Mars?

- a. 52 pounds**
- b. 78 pounds
- c. 153 pounds
- d. 468 pounds

7. The chart below shows the information for a rectangular prism.

Length	Width	Height	Volume
5 ft	<b>x</b>	7 ft	280 cubic ft

What is the width of the rectangular prism?

- a. 5 ft
- b. 6 ft
- c. 7 ft
- d. 8 ft**

Helpful Hint:  $V = l \times w \times h$

4. Which expression is equivalent to the number sentence below?

**fourteen less than three times a number**

- a.  $14 - 3a$
- b.  $3a + 14$
- c.  $3a - 14$**
- d.  $14 + 3a$

8. Joy made this pictograph to show the number of beach balls she sold over three days.

Beach Ball Sales	
Friday	
Saturday	
Sunday	
Key:  = 5 beach balls	

There **must** be an error in Joy's pictograph because it shows:

- a. she sold fewer beach balls on Sunday than Friday
- b. she sold more beach balls on Friday than Saturday
- c. she sold 10 beach ball on Saturday
- d. she sold  $12\frac{1}{2}$  beach balls on Friday**

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

A punch bowl holds 3 liters of punch. Beverly's fruit punch recipe calls for 1,600 milliliters of orange juice, 600 milliliters of lemon-lime soda, and 500 milliliters of raspberry juice. Will Beverly's fruit punch fit in the punch bowl? Explain your thinking.

**Yes, the punch will fit in the punch bowl. ( $1,600 \text{ mL} + 600 \text{ mL} + 500 \text{ mL} = 2,700 \text{ mL} = 2.7 \text{ liters}$ )**

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