

MATH MADNESS # 75

1. Which of the following correctly compares nine and forty-two thousandths and nine and fourteen hundredths?

- a. $9.042 > 9.14$
- b. $9.042 < 9.14$**
- c. $9.42 > 9.014$
- d. $9.42 < 9.014$

5. Mr. Guentzel makes a pattern that starts with 2 and uses the rule "add 4, and then multiply by 2." Which expression can be used to find the third number in Mr. Guentzel's pattern?

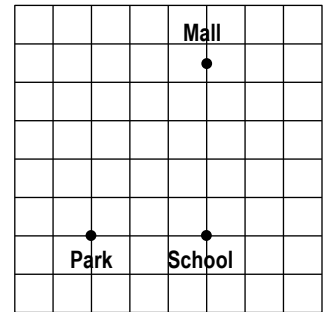
- a. $3 [2 (2 + 4)]$
- b. $2 [2 (2 + 4) + 4]$**
- c. $2 (2 + 4) \times 2(2 + 4)$
- d. $2 (2 + 4) \times 3$

2. Natalie spends 4 hours mowing yards. Each yard takes $\frac{2}{3}$ hour to mow. How many yards did Natalie mow?

- a. $\frac{1}{6}$
- b. $\frac{1}{2}$
- c. $2 \frac{2}{3}$
- d. 6**

6. Each space on the grid represents $\frac{2}{3}$ mile.

How much farther is it from the school to the mall than from the school to the park?



- a. 1 mile**
- c. $2 \frac{1}{3}$ miles
- b. 2 miles
- d. $3 \frac{1}{3}$ miles

3. Margaret is making a quilt using 36 fabric squares. Each fabric square is the same size.

- $\frac{2}{3}$ of the fabric squares are blue.
- $\frac{1}{6}$ of the fabric squares are red.
- The rest of the fabric squares are white.

How many fabric squares are white?

- a. 4
- c. 12
- b. 6**
- d. 24

7. Chuck drank 600 **milliliters** of water every day for 2 week. How many **liters** of water did he drink in all?

- a. $7 \frac{2}{5}$ liters
- b. $7 \frac{1}{2}$ liters
- c. $8 \frac{2}{5}$ liters**
- d. $8 \frac{1}{2}$ liters

Helpful Hint: 1 L = 1,000 mL

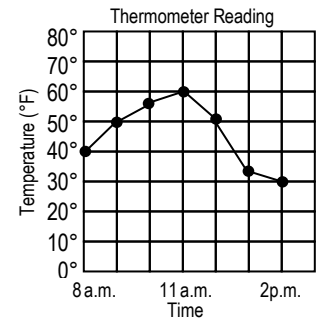
4. Which expression has half the value of $22 + \frac{1}{2} \times 68$?

- a. $11 + \frac{1}{4} \times 68$**
- b. $11 + \frac{1}{2} \times 68$
- c. $22 + \frac{1}{4} \times 34$
- d. $22 + \frac{1}{2} \times 34$

8. Mrs. Gibson's class recorded the temperature outside every hour during a school day.

Which is **closest** to the temperature at 10 a.m.?

- a. 50° F
- c. 60° F
- b. 56° F**
- d. 65° F



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

Is this statement true? Explain why or why not.

$$18 \times 15 = (18 \times 10) + (18 \times 5)$$

Yes, 18×15 is equal to $(18 \times 10) + (18 \times 5)$

Show your work here.

$$18 \times 15 = (18 \times 10) + (18 \times 5)$$

\Downarrow
270

\Downarrow
180

\Downarrow
90

$$270 = 180 + 90$$