

Name .....

**Directions: Show your work for each question. Due Monday, February 25th**

1. How can  $\frac{3}{16}$  be written as a decimal? **Show your work**

- A  $5.\bar{3}$
- B 0.3125
- C 0.1875
- D 11

2. Harper wants to join the YMCA. There is an initiation fee of \$39.99, and each month of the membership costs \$19.99. If Harper pays \$99.96, how long will her membership last?

**Show your work**

- A 3 months
- B 5 months
- C 6 months
- D 12 months

3. Which expression is equivalent to  $x - (-y)$  ?

- A  $x + (-y)$
- B  $-x + y$
- C  $x + y$
- D  $x - y$

4. Nick walks  $\frac{1}{4}$  mile in  $\frac{1}{14}$  hour. At what rate does Nick walk? **Show your work**

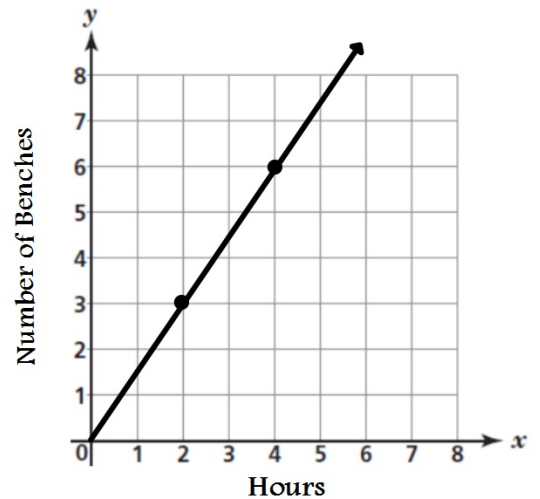
- A 3 miles per hour
- B  $3\frac{1}{2}$  miles per hour
- C 4 miles per hour
- D  $4\frac{1}{2}$  miles per hour

5. Nina makes cedar benches at her furniture shop. The graph to the right shows the relationship between the number of the benches (y) made in a certain number of hours (x).

Explain what the point (4,6) on the graph represents

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6. To raise money for charity, Polly climbs the 1,776 steps in the CN Tower in Toronto, Canada. If it takes her 40 minutes to complete the climb, what is Polly's average rate in steps per minute?

$$\text{Rate} = \frac{\text{Distance}}{\text{Time}}$$

**Show your work.**

**Answer** \_\_\_\_\_ steps per minute