



4. Itiah needs a total of 526 forks for this restaurant. She currently has 378 forks. If each set has 12 forks, what is the minimum number of sets of forks she should buy?

A. 13

C. 12

B. 11

D. 148

5. The length,  $l$ , of a rectangle is 6.5 inches greater than its width,  $w$ . The perimeter of the rectangle is at least 36 inches.

Which inequality shows the range of possible widths of the rectangle?

A.  $w \geq 6.5$  inches

B.  $w \geq 8$  inches

C.  $w \geq 9$  inches

D.  $w \geq 7$  inches

6. Olivia joined a video rental club. She paid an initiation fee of \$21.25, and it cost \$1.85 per video that she rents.

Part A: If Olivia rents 4 movies, how much money will she pay in total?

Answer \_\_\_\_\_

Part B: Write an equation to show the total amount Olivia paid to rent  $v$  videos.

Equation \_\_\_\_\_

Part C: While she was a member of the club, Olivia paid a total of \$237.70. How many videos did she rent? Show your work.

Answer \_\_\_\_\_ videos

Part D: Suppose Olivia had rented the same number of videos with the same initiation fee, but the cost was instead \$1.35 per video that she rented. What would she have paid in total? Show your work.

Answer \_\_\_\_\_

7. Given a rectangular room, Jaden wants to paint the walls. The dimensions of the wall are 39.5 feet by 27.5 feet. If the total amount for the paint is \$791.12, what is the cost per square foot?

Answer \_\_\_\_\_

8. What is the value of the expression  $- \left(-\frac{5}{9}\right) \div \left(-\frac{2}{9}\right) \times \left(-1\frac{1}{4}\right)$ ?

9. A group of friends met at the playground to race one another. At the starting point Nicolas and Solomon walked in opposite directions to mark the area that they would use to run the race. Nicolas walked east 350 feet and Solomon walked west 405 feet.

Part A: Draw a number line and plot Nicolas and Solomon's ending location. Consider the starting point to be 0, west to be the negative direction and east to be the positive direction

Part B: How far apart are Nicolas and Solomon at their ending locations?  
Answer \_\_\_\_\_

Part C: Write two different expressions that you could use to find the distance between Nicolas and Solomon.

Expression 1 \_\_\_\_\_

Expression 2 \_\_\_\_\_

10. Isaiah painted  $\frac{3}{8}$  of a wall using  $\frac{2}{3}$  of a can of paint. Which statements are true?

- a) He can paint 8 walls with  $4\frac{1}{8}$  cans of paint
- b) He can paint 5 walls with  $2\frac{2}{3}$  cans of paint
- c) He can paint 4 walls with  $2\frac{1}{4}$  can of paint
- d) He can paint 2 walls with  $1\frac{1}{3}$  can of paint