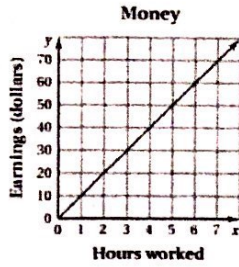


16. What direct variation is graphed on the coordinate plane below?



x	y
1	10
2	20
7	70

$$k = 10$$

$$y = kx$$

$$y = 10x$$

17. Julia paid \$140 for 7 gift cards. Each gift card was the same price. Write an equation that represents the situation and find the price of each gift card? $7x = 140$; \$20 per card

18. A music teacher bought 17 recorders of equal price. She spent a total of \$51. The equation $17r = 51$ can be used to find r , the price of each recorder in dollars. What was the price of each recorder? \$3 per recorder

19. Mrs. Katz bought chick-fil-a biscuits for her homeroom and spent a total of \$160. If each biscuit cost \$5, write an equation that you could use inverse operations to solve and solve it to find out how many biscuits Mrs. Katz bought. *she bought 32 biscuits.* $5x = 160$ $5 \cdot 32 = 160$ $x = \#$ of biscuits bought

20. Which solution makes the equation true? $x - 6.5 = 19$
 $x = 25.5$

For questions 19-21, determine whether the given value is a solution of the equation by selecting true or false.

21. $25 = \frac{k}{3}$ for $k = 3$ $25 = \frac{3}{3}$ $25 \neq 1$

a. TRUE

b. FALSE

22. $0.7y = 49$ for $y = 70$

a. TRUE

b. FALSE

$$0.7 \cdot 70 = 49$$

$$49 = 49$$

$$\begin{array}{r} 70 \\ \times 0.7 \\ \hline 49.0 \end{array}$$

23. Silly Sally solved the equation for x and shows her solution below. What should Silly Sally do to correct her mistake?

$$36 + x = 54$$

$$36 + x = 54$$

$$\Rightarrow \begin{array}{r} -36 \quad +36 \\ \hline x = 90 \end{array}$$

she should have subtracted on both sides

24. **Opposite** operations that "undo" each other are called inverse operations

25. Which step should be taken to **isolate the variable** in the following equation?

$$213n = 1418$$

divide by 213 on both sides.