

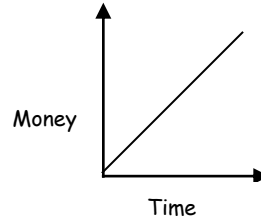
# T-1 Rev B Multiple Choice Review for T-1 Benchmark Exam Algebra 1H

Do in spiral and show all support work!

- 1) What is the solution of  $4(3x - 2) - (4x - 3) = 11$     A) 1    B)  $1\frac{1}{4}$     C)  $\frac{4}{3}$     D) 2
- 2) Which point is *not* on the line?  $6x - 8y = -2$     A) (1, 1)    B)  $(\frac{1}{3}, \frac{1}{2})$     C) (2, 2)    D) (0.5, 0.625)
- 3) Which point is on the line?  $y = \frac{3}{4}x - 5$     A) (4, 7)    B) (4, -2)    C) (0, 5)    D) (-5, 0)
- 4) What is the equation of the line that passes through the point (3, -1) and is perpendicular to the line  $2x - 4y = 8$ ?  
A)  $2x - y = 7$     B)  $x + 2y = 1$     C)  $2x + y = 5$     D)  $x - 2y = 5$
- 5) What is the domain of the function given by  $\{(5,0), (-1,2), (3,2), (6,7)\}$ ?  
A)  $\{0, 2, 7\}$     B)  $\{-1, 2, 5, 7\}$     C)  $\{2, 3, 6, 7\}$     D)  $\{-1, 3, 5, 6\}$
- 6) What is the solution for the equation  $3(y + 2) - 4(2y - 1) = 8$     A)  $-\frac{9}{5}$     B)  $-\frac{2}{5}$     C)  $\frac{2}{5}$     D)  $\frac{9}{5}$
- 7) What is the solution for the equation?  $\frac{4}{5}x + \frac{7}{5}x = \frac{33}{10}$     A)  $\frac{363}{50}$     B) 3    C)  $\frac{3}{2}$     D)  $\frac{2}{3}$
- 8) A movie discount pass, which has an annual fee of \$50, allows a moviegoer to pay \$6 per movie. If a movie ticket normally costs \$8.50, how many movie tickets must a moviegoer buy to make the discount pass a bargain?  
A) at least 25    B) more than 20    C) 20 or fewer    D) more than 19
- 9) What is the solution for the equation?  $2.96 = 0.08(x - 4)$     A) 4.1    B) 33    C) 41    D) 87
- 10) What is the equation of the line that passes through the point (1, 4) and is parallel to the graph of  $2x - y = 9$ ?  
A)  $2x - y = -2$     B)  $2x - y = 4$     C)  $2x + y = 6$     D)  $x + 2y = 9$
- 11) Which ordered pair represents where the graph of  $5x - 2y = 10$  intersects the y-axis?  
A) (0, -5)    B) (-5, 0)    C) (0, 2)    D) (2, 0)
- 12) Which relation is a function?  
A)  $\{(0,1), (0,2), (2,3), (3,2)\}$     B)  $\{(2,4), (3,5), (4,6), (5,6)\}$   
C)  $\{(3,1), (1,3), (2,1), (2,3)\}$     D)  $\{(5,2), (5,3), (2,2), (3,3)\}$
- 13) In the equation  $t = 2000p$ , where tons are a function of pounds, what does  $t$  represent?  
A) the dependent variable    B) the independent variable  
C) the intercept    D) the slope
- 14) What is the y-intercept for the equation?  $6x - 2y = -4$     A) -2    B)  $-\frac{2}{3}$     C) 2    D)  $\frac{1}{2}$

- 15) Which statement is true about the relationship between the domain ( $D$ ) and the range ( $R$ ) of a function?
- A) For every element in  $D$ , there is only one corresponding element in  $R$ .
  - B) For every element in  $R$ , there is only one corresponding element in  $D$ .
  - C) There must be the same number of elements in  $D$  and  $R$ .
  - D) The elements of  $D$  are the dependent variables.

- 16) Which situation is most likely represented by the graph?
- A) amount of tip money earned by a waiter every night
  - B) price of a stock on the stock market
  - C) wages paid to an hourly employee at a factory
  - D) daily commissions earned by a real estate agent



- 17) What is the slope of the line?  $2x + 3y = 6$       A) 2      B)  $-\frac{3}{2}$       C)  $-\frac{2}{3}$       D) -2

- 18) Which ordered pair represents the x-intercept of the line?  $4x - 3y = 12$
- A) (0, 3)
  - B) (3, 0)
  - C) (0, -4)
  - D) (-4, 0)

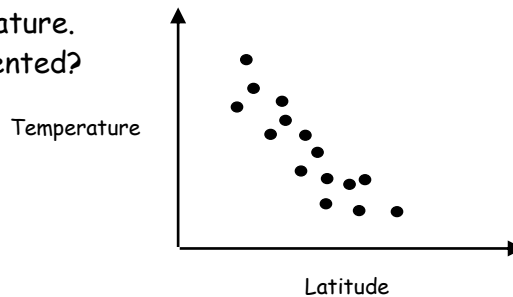
- 19) What is the equation of the line that passes through the point (3, 2) and has a slope of  $-\frac{2}{3}$ ?

- A)  $y - 2 = \frac{2}{3}(x - 3)$
- B)  $y - 3 = \frac{2}{3}(x - 2)$
- C)  $y - 2 = -\frac{2}{3}(x - 3)$
- D)  $y - 3 = -\frac{2}{3}(x - 2)$

- 20) On a scatter plot, the x-axis represents the latitude from the equator to the North Pole and the y-axis represents the average temperature.

Which type of correlation is represented?

- A) positive correlation
- B) negative correlation
- C) no correlation
- D) none of the above



- 21) The graph of a linear function contains the following data points. What is the slope of the line?

- A)  $\frac{1}{25}$
- B)  $\frac{1}{5}$
- C) 5
- D) 25

Number of cars	Car wash
5	\$25
10	\$50
15	\$75
20	\$100
25	\$125

**KEY T-1 Rev B Multiple Choice Review for T-1 Benchmark Exam Algebra 1H**

<b>Answer Key</b>	3) B	7) C	11) A		21) C
	4) C	8) B	12) A	18) C	22) B
	5) D	9) C	13) B		23) C
1) D			14) A	19) C	
2) C	6) C		15) C		
			16) A	20) B	