8th

Name: _____ Date: _____

Common Assessment Score: ____

Directions: Read each question carefully. Answer each question fully.

1. Which statement represents the expression $2q + 3$?

A. The quotient of 2 and q, plus 3
B. The difference of 2 times q and 3
C. 3 more than the product of 2 and q
D. 3 less than the quotient of 2 and q

2. Evaluate $2ps$ for p = 3 and s = 5.

_____

3. Which expression shows the absolute value of the sum of x and 6?

A. $|x + 6|$
B. $|x| + 6$
C. $6|x|$
D. $|6x|$

4. Solve $d + \frac{3}{4} = -\frac{1}{4}$.

_____

5. Anna deposited her babysitting money into her savings account, which already had a balance of $210. Her new balance is $295. Which equation can be solved to find how much she deposited?

A. $295 + 210 = x$
B. $x + 295 = 210$
C. $x + 210 = 295$
D. $210x = 295$

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6. Solve $8z + 11 = -5$.

_____

7. Solve $|6x - 3| = 9$.

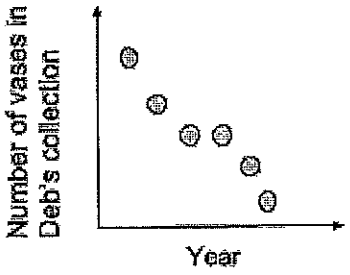
_____

8. A proofreader read 195 pages in 7 hours. To the nearest hundredth, what is her reading rate in pages per minute?

_____

9. Which situation could be represented by the graph below?

A. Deb sold the same number of vases every year.
B. Deb sold vases for two years and then began purchasing new vases.
C. Deb sold vases for two years, neither sold nor bought the next year, and the sold vases for two more years
D. Deb bought vases for two years, sold vases the next year, and then bought vases the last two years



10. Which function has (2, 8) on its graph?

A. $y = x + 8$
B. $y = 2x^2$
C. $y = 2x + 6$
D. $y = 4x^2$

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11. Which relation is NOT a function?

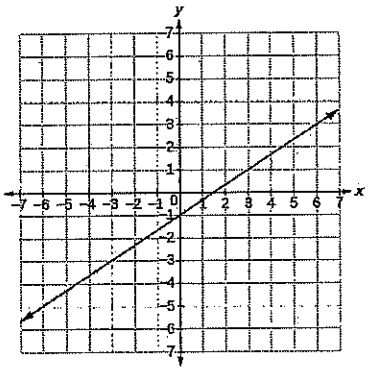
A. (2, 6), (4, 6), (6, 6)
B. (3, 1), (3, 5), (3, 8)
C. (0, 0), (1, 1), (6, 6)
D. (6, 2), (2, 6), (3, 9)

12. What is the y-intercept of $4x - 3y = 24$.

_____

13. What is the slope of the line graphed below?

m = _____



14. Write $-2x + y = -6$ in slope-intercept form.

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15. The value of y varies directly with x and y = 10 when x = -5. Find y when x = 3.

A. -6
B. $-1\frac{1}{2}$
C. $-\frac{2}{3}$
D. $-\frac{1}{6}$

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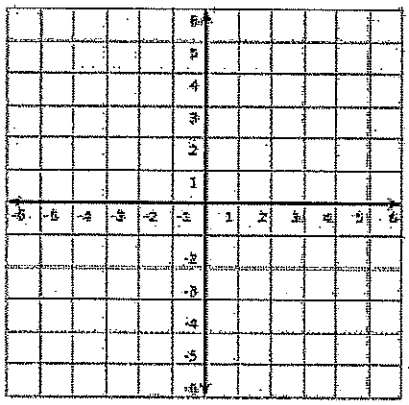
16. The table shows the number of minutes per day members of a cross country team spent practicing over the summer and the members' mile time the following semester. Which equation represents the line of best fit for this data?

Daily practice (min)	0	30	20	0	15
Mile time (min)	8.5	5.5	6.5	6.5	7

A. $y \approx -0.06x + 7.6$
B. $y \approx 7.6x - 0.06$
C. $y \approx -6x + 76$
D. $y \approx 76x - 6$

17. Graph $y = 4x - 3$.



18. Write a parallel line to the linear function in #17.

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19. Which line describe a line passing through (-6, -5) that is perpendicular to $y = -\frac{2}{3}x$?

A. $y = \frac{3}{2}x + 4$
B. $y = \frac{3}{2}x - 4$
C. $y = \frac{2}{3}x - 1$

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D. $y = \frac{-2}{3}x - 9$

20. Write an equation of the line whose slope is 2 and whose y-intercept is 9.

_____

21. Write an equation of the line that passes through (-1, -7) and (1, 3).

_____

22. Write a verbal expression for 4r+9.

_____

23. Evaluate $2x + 5y^2 - 3z$ if x = 6, y = 4, and z = 7.

_____

24. Solve $5(c+3) = 15 + 2(2c - 1)$.

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25. Solve $\frac{7}{10} = \frac{3}{x+1}$.

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