

Cumulative Test

Choose the best answer.

1. Evaluate $\frac{6(18 - 4)}{4}$.

- A 21 C 26
B 23 D 102

2. Evaluate the expression $3(4a - 5) - b$ for $a = 6$ and $b = -3$.

- F 54 H 64
G 60 J 70

3. Evaluate $|3 - r|$ for $r = 10$.

- A -13 C 7
B -7 D 13

4. In which quadrant is the coordinate pair $(-11, 1)$ located?

- F I H III
G II J IV

5. Solve the equation $\frac{m}{-3} + 5 = 1$.

- A -18 C 2
B -2 D 12

6. Solve the inequality $-7 \leq 2x + 9$.

- F $x \leq -1$ H $x \geq -8$
G $x \leq 1$ J $x \geq 8$

7. Evaluate d^3 for $d = -5$.

- A -243 C -75
B -125 D -15

8. Simplify $z^3 \cdot z^2$.

- F z^5 H z^{12}
G z^6 J z^{27}

9. What is the solution to the equation $4c - 3 = 85$?

- A -22 C 22
B 20.5 D 85

10. What is the solution to the equation $-4 - 3y = y + 8$?

- F -3 H 1
G -2 J 2

11. The statement "6 less than twice a number is at least 15" is represented by

- A $6 - 2n \leq 15$. C $6 - 2n \geq 15$.
B $2n - 6 \leq 15$. D $2n - 6 \geq 15$.

12. What is the slope of the line that passes through $(-8, 2)$ and $(4, 5)$?

- F $-\frac{7}{4}$ H $\frac{1}{4}$
G $-\frac{4}{7}$ J 4

13. Which inequality is shown by the graph?



- A $y \geq -2x - 1$ C $y \geq -\frac{1}{2}x - 1$
B $y \leq -2x - 1$ D $y \geq 2x - 1$

14. If $f(x) = 3x - 5$, what is $f(-2)$?

- F $-6x + 10$ H $3x - 7$
G 1 J -11

15. Thirty-two is what percent of 80?

- A 4% C 40%
B 25.6% D 256%

16. Which equation can be solved to find 150% of 16?

- F $x = 150 + 16$ H $16x = 150$
G $x = 1.5 + 16$ J $1.5x = 16$

17. Last year Miranda was 60 inches tall. This year she is 63 inches tall. What is the percent increase in her height?

- A 5% C 60%
B 6.3% D 95%

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K. J. Miskelly

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