

Math 119 Self Diagnostic Test

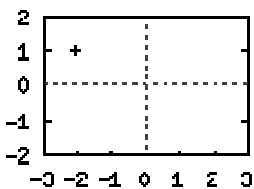
(designed to help predict your success in Math 119)

30 Minute Time Limit
NO CALCULATORS!

Take this as if it were an exam. Do your best.

1. Evaluate: $1 - 4^2$
- A. 9 B. -15 C. 17 D. -9 E. None of these.

2. The coordinates of the given point are



- A. (1, -2) B. (-2, 1) C. (-1, 2) D. (2, -1) E. None of these.

3. Solve: $2x - 5 = 12$

- A. $x = 4$ B. $x = \frac{7}{2}$ C. $x = \frac{17}{2}$ D. $x = 11$ E. None of these.

4. Evaluate: 3186×7

- A. 22,302 B. 29,302 C. 22,314 D. 22,362 E. None of these.

5. Simplify: $\frac{3x+9}{3}$

- A. $x+3$ B. $x+9$ C. $x+6$ D. 9 E. None of these.

6. Which of the following is not equal to $\frac{3}{4}$?

- A. $\frac{6}{8}$ B. $\frac{9}{12}$ C. $\frac{12}{15}$ D. $\frac{15}{20}$ E. None of these.

7. Evaluate: $\frac{3}{8} + \frac{5}{6}$
- A. $\frac{9}{4}$ B. $\frac{4}{7}$ C. $\frac{29}{24}$ D. $\frac{7}{8}$ E. None of these.
8. Evaluate: $-17 - 3 + 4 - 8 + 6$
- A. -38 B. -18 C. -30 D. 16 E. None of these.
9. Find an equivalent expression: $6 + (m + n)$
- A. $6m + n$ B. $6 \cdot n \cdot m$ C. $6m + 6n$ D. $(n + 6) + m$ E. None of these.
10. Remove parentheses and simplify: $3x + 7 - 5(7x - 5)$
- A. $-32x + 2$ B. $17x - 10$ C. $-32x - 18$ D. $-32x + 32$ E. None of these.
11. Evaluate: $-3(-6)(5)$
- A. 90 B. 33 C. -33 D. 450 E. None of these.
12. Express $\frac{3}{5}$ as a percent.
- A. 15% B. 40% C. 60% D. 95% E. None of these.
13. Solve: $\frac{8}{x} = \frac{3}{4}$
- A. $x = \frac{32}{3}$ B. $x = \frac{2}{3}$ C. $x = 6$ D. $x = 12$ E. None of these.
14. Evaluate: $|2 - 5|$
- A. 7 B. -3 C. 3 D. 2 E. None of these.
15. Evaluate: $2 \cdot 3^2$
- A. 36 B. 25 C. 18 D. 12 E. None of these.

16. Evaluate: $\sqrt[3]{8}$
- A. 4 B. 2 C. $2\frac{2}{3}$ D. 24 E. None of these.
17. Consider the following numbers: $\frac{2}{5}, -1, \frac{1}{2}, -4$
- A. The largest number is $\frac{2}{5}$ and the smallest number is -1 .
- B. The largest number is -4 and the smallest number is $\frac{1}{2}$.
- C. The largest number is $\frac{1}{2}$ and the smallest number is -1 .
- D. The largest number is $\frac{1}{2}$ and the smallest number is -4 .
- E. None of these.
18. Which of the points $P = (-3, 1)$ and $Q = (2, 1)$ lie on the line whose equation is $y = 4x - 7$?
- A. point P only
B. point Q only
C. both points
D. neither points
E. None of these.
19. Evaluate: $\frac{3}{5}(-2)$
- A. $-\frac{3}{5}$ B. $-\frac{6}{5}$ C. $-\frac{3}{10}$ D. $\frac{3}{5}$ E. None of these.
20. Evaluate: $\frac{10}{0.5}$
- A. 5 B. 0.2 C. 0.05 D. 20 E. None of these.