

MAT 0024 Sample Test 1
NO CALCULATORS ALLOWED

Name _____
Write out the COMPLETE word: TRUE or FALSE

Start 2 points per problem

1. $(-1)^{2005} = -1$ 1. _____
 2. $\{0, 1, 2, 3, 4, 5, \dots\}$ is the set of Whole Numbers. 2. _____
 3. $-7 > -3$ 3. _____
 4. $\frac{1}{3} = 0.3$ 4. _____
 5. Every Integer is also a Rational Number. 5. _____
 6. $-4^2 = 16$ 6. _____
 7. 5 is a solution of $3x - 4 = 4x + 1$ 7. _____
 8. $-|-10| = -10$ 8. _____
 9. $a - (-b) = a - b$ 9. _____
 10. $0 < 6$ is equivalent to $6 > 0$ 10. _____
 11. $|-7.1| > -(6.9)$ 11. _____
 12. $|-5 - 2| - 3 = (2 + 3) - 5$ 12. _____
 13. $\frac{0}{5}$ is undefined 13. _____
 14. $\{-3\}$ is the solution set of the equation $4x - 1 = 5x + 2$ 14. _____
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15. Find the perimeter of a rectangle whole length is 7 ft. and width is 4 ft. 15. _____
 16. Find the SUM of 5 and -16 16. _____
 17. Find the PRODUCT of $\frac{3}{4}$ and $\frac{6}{15}$ 17. _____
 18. Find the DIFFERENCE of -8 and -5 18. _____
 19. Find the QUOTIENT of -2 and -6 19. _____
 20. Use the Distributive Property to simplify $4(x + 3)$ 20. _____

Write each of the following phrases as an algebraic expression

21. The product of a number and ten. 21. _____

22. Eight less than a number. 22. _____

23. The sum of a number and four. 23. _____

24. Evaluate $x^3 - x + 3x^2$ when $x = -1$ 24. _____25. Evaluate $x^2 - y^2 + xy$ when $x = -2$ and $y = -3$ 25. _____

Perform the indicated operations. Simplify your answer whenever possible26. Simplify the fraction: $\frac{60}{450}$ 26. _____27. $2\frac{2}{5} \cdot 4\frac{1}{2}$ 27. _____28. $\frac{5}{12} + \frac{4}{15}$ 28. _____29. $\left(\frac{3}{4}\right)^3$ 29. _____30. $(0.3)^2$ 30. _____31. $(-2)^3$ 31. _____32. $-6 - (-2)$ 32. _____33. $-14 - 9$ 33. _____34. $7 - (-2)$ 34. _____

35. $11 + (-3)$

35. _____

36. $-5 | -2 |$

36. _____

37. $-\frac{-4}{-20}$

37. _____

38. $40 - 75$

38. _____

39. $-3 - 7$

39. _____

Start 3 points per problem

40. $6 - 4 [5 - (2 - 3)]$

40. _____

41. $(-5)(-4)(-3)(-2)$

41. _____

42. $-3^2 - (-3)^2 - |-3|$

42. _____

43. $-1 + 2 - 3 + 4 - 5$

43. _____

44. $2 - 5 + 3 \cdot 4$

44. _____

45. $-3 - 5 - (7 - 9)$

45. _____

46. $\frac{2^3 - 5 \cdot 2}{3^2 + 2^3 - 1}$

46. _____