

Name: _____

Date: _____

PRE-ALGEBRA QUARTER 1 TEST REVIEW

The BEST way to study for the Quarterly Exam is to RE-DO all the tests that you were given this quarter. You can expect similar questions to what we have already asked on previous tests.

Perform the indicated operation.

1. $-0.75 + 42$

2. $3.04 - 7.5$

3. $5.6 \cdot (-1.2)$

4. $-4.5 \div -0.03$

5. $-2\frac{1}{3} + 5\frac{5}{7}$

6. $8\frac{1}{6} - 10\frac{3}{4}$

7. $-4\frac{2}{5} \times 2\frac{3}{11}$

8. $-1\frac{2}{9} \div -\frac{11}{13}$

9. $-18 + 5$

10. $-3 - (-6)$

11. $(-3)(-9)$

12. $(-5)^2$

13. -5^2

14. $-48 \div 6$

15. $-10 + 21$

16. $(-2.8)(-4)$

17. Simplify: $5.2 - 8.9 + (-4.3)$

18. Evaluate. $6 + 10 \div (-2) \cdot 3$

19. Simplify the algebraic expression when $a = 2$, $b = -6$ and $c = -3$. $\frac{b^2}{a} + -c$

20. Identify the property represented by the statement.

- a. $(x)(y) = (y)(x)$ _____
- b. $-8 + 0 = -8$ _____
- c. $(3 + 4) + 5 = 3 + (4 + 5)$ _____
- d. $a(b - c) = ab - ac$ _____
- e. $\frac{1}{2} \cdot 2 = 1$ _____

21. Determine the smallest set of real numbers that each number belongs to (Natural, Whole, Integers, Rational, Irrational).

- a. $\sqrt{18}$ _____ b. -5 _____ c. $3.\overline{12}$ _____

22. Simplify each expression as a single power to a positive exponent by using laws of exponents. Evaluate if possible.

- a. $(x^3)^4$ b. 17^0 c. $(3^2)^{-2}$ d. 6^{-3} e. $5^2 \times 5^{-1}$ f. $3^4 \div 3^{-2}$

23. Simplify. $(3x^2)(-5x^5) =$ _____

24. Write 67,000 in **scientific notation**.

25. Write 0.0000123 in **scientific notation**.

26. Write 1.23×10^5 in **standard form**.

27. Find the product: $(2.3 \times 10^{-5})(3.2 \times 10^7)$

28. Find the quotient: $\frac{4.8 \times 10^4}{4 \times 10^2}$

29. Simplify: $\frac{(8 \times 10^3)(3 \times 10^4)}{2 \times 10^2}$

30. Order from least to greatest: 2.5×10^{-2} 8.39×10^{-5} 4.62×10^2 7.1×10^{-2}