

Chapter 1 Review Worksheet for Power Point

Evaluate the following:

1. $m \cdot n$ where $m = \frac{10}{3}$, $n = 2\frac{2}{5}$

2. $a \div b$ where $a = 1\frac{3}{4}$, $b = 1\frac{1}{5}$

3. $p + q$ where $p = \frac{3}{5}$, $q = \frac{2}{3}$

4. $j - k$ where $j = \frac{13}{9}$, $k = 1$

5. $c - d$ where $c = 3$, $d = \frac{7}{12}$

More evaluating:

6. $s + d$ where $s = 7.3$, $d = 2.86$

7. $t \cdot m$ where $t = 4.2$, $m = .03$

8. $\frac{x}{y}$ where $x = 2.5$, $y = .05$

The Real Number System

Fill in the following:

9. The set of _____ numbers is the set $\{1, 2, 3, \dots\}$
10. The set of _____ numbers is the set $\{0, 1, 2, 3, \dots\}$
11. The set of _____ is the set $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$
12. All numbers that can be written as a fraction with an integer in its numerator and a nonzero integer in its denominator is called the set of _____ numbers.
13. All numbers that can not be written as a fraction with an integer numerator and a nonzero integer denominator is called the set of _____ numbers.

True or False?

14. -2 is a whole number.
15. $0.3\overline{3}$ is a rational number.
16. $-9 \leq -9$
17. Every rational number is a whole number.

Which numbers in the set

$\left\{-4, \frac{-2}{3}, -1, 0, 1, 2, \frac{9}{4}, 3.75, \sqrt{10}, 8\right\}$ are:

18. *Natural numbers*

19. *Whole numbers*

20. *Integers*

21. *Rational numbers*

22. *Irrational numbers*

Evaluate the following expressions:

23. $(-3)+8$

24. $-4+(-9)$

25. $-16+7$

26. $-14+(-4)$

27. $0+(-5)$

Use the definition of subtraction: $a - b = a + (-b)$ to evaluate the following expressions.

A. $3 - 7$

B. $-6 - 5$

C. $4 - (-5) =$

D. $-8 - (-2) =$

Using the shortcut for subtraction, evaluate the following expressions:

28. $2 - 10 =$

29. $-6 - 4 =$

30. $4 - (-7) =$

31. $-12 - (-5) =$

32. $-11 - (-11) =$

Evaluate the following expressions:

33. $(-2)(-7) =$

34. $-6(5) =$

35. $(0)(-504) =$

36. $4(-9) =$

37. $-9(-7) =$

Evaluate the following expressions:

38. $\frac{-18}{-6} =$

39. $\frac{-30}{22} =$

40. $\frac{8}{-32} =$

41. $\frac{-17}{-11} =$

42. $\frac{0}{-2} =$

43. $\frac{15}{0} =$

Properties - Commutative, Associative, Identity
Element, Inverse Property

True or False? If true, identify the property
being illustrated.

44. $(6)(-7) = (-7)(6)$

45. $\left(\frac{1}{5}\right)(5) = 1$

46. $10 - 3 = 3 - 10$

47. $(9 + (-3)) + 4 = 9 + (-3 + 4)$

48. $-4 - 4 = 0$

49. $9 + (-9) = 0$

50. $(1007)(1) = 1007$

51. $(1 + 5) + 7 = (5 + 1) + 7$

Perform the indicated operation. (Yes, some more!)

52. $-15+8$

53. $\frac{14}{-12} =$

54. $-14-9 =$

55. $10-(-3) =$

56. $(-7)(-8) =$

57. $-18+18 =$

58. $-17-(-6) =$

59. $-\frac{3}{4}-3$

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

61. $\left(3\frac{1}{5}\right)\left(-1\frac{1}{14}\right)$

62. $-\frac{12}{7} \div (-8)$

More Evaluating:

63. $a+b-c$ where $a=7$, $b=-10$, $c=-3$

64. mno where $m=-2$, $n=-3$, $o=-5$

65. $p-q$ where $p=1\frac{1}{4}$, $q=2\frac{2}{3}$