

First 9 Weeks Test Study Sheet 2016

Short Answer

Combine like terms.

1. $8y + 10 + 3y - 2$
2. $9x + 10z + x + 4z - 7$
3. Simplify $6(7t - 5) - 6t$.
4. Simplify $4(3y + 5) - 2y$.
5. Simplify $4(3y + 9) + 3y$.
6. Solve $n + 8 = 51$. Check your answer.
7. Solve $14m = 28$.
8. Solve $\frac{n}{3} = 24$.
9. Solve $6z + 5 = 59$.
10. Solve $7n - 3 = 60$.
11. Solve $\frac{z}{5} - 2 = 14$.
12. Solve $8y - 4y = 48$.
13. Solve $7y + 4y = 55$.
14. Solve $7y + 2y = 36$.
15. *Solve.*
 $m + 14 = 17$
16. $-1 + n = 22$
17. $-8w = 16$
18. $\frac{b}{4} = 8$
19. Solve the following equation.
 $y + 19.5 = 15.5$
20. Solve the following equation.
 $1.2p = 3.6$
21. Solve the following equation.
 $\frac{t}{0.9} = 0.72$
22. Solve the following equation.
 $x - \frac{5}{12} = -\frac{1}{14}$
23. Solve the following equation.
 $x + \frac{10}{11} = -\frac{1}{3}$
24. Solve the following equation.
 $x + \frac{1}{4} = \frac{9}{13}$
25. Solve the following equation.
 $x - \frac{2}{9} = -\frac{7}{10}$
26. Solve the following equation.
 $-\frac{3}{13}w = \frac{7}{12}$
27. Solve the following equation.
 $-\frac{13}{14}w = \frac{3}{13}$
28. Solve $4(3x + 5) = 44$
29. Solve $4(2x + 3) - 3x = 47$.
30. Solve $4(6x - 3) = 5(4x + 6) + 2$.

Continued on back 1

31. Name all the sets of the real numbers to which 5 belongs.
(Natural, Whole, Integer, Rational or Irrational).
32. Name all the sets of the real numbers to which -6 belongs.
(Natural, Whole, Integer, Rational or Irrational).
33. Name all the sets of the real numbers to which $\sqrt{37}$ belongs.
(Natural, Whole, Integer, Rational or Irrational).
34. Put a $<$, $>$, $=$ in between the numbers to make a true statement.
 2.05 2.037
35. Put a $<$, $>$, $=$ in between the numbers to make a true statement.
 $\frac{1}{6}$ $\frac{7}{43}$
36. Put a $<$, $>$, $=$ in between the numbers to make a true statement.
 $3.\bar{3}$ 3.35
37. What is the value of $|-5|$
38. Which property is illustrated: $(5+2)+3 = 5+(2+3)$
39. Which property is illustrated: $3(5+2) = 3(5) + 3(2)$
40. Which property is illustrated: $(5+2)+3 = 3+(5+2)$
41. Which property is illustrated: $0(23) = 0$
42. A box of rotini noodles contains 10 servings. If you eat $\frac{4}{3}$ of the recommended serving as a meal, how many complete meals can you get from one box?
43. A candle was originally $3\frac{1}{3}$ inches tall. After burning awhile, it is now $2\frac{1}{2}$ inches. How much did it burn?
44. In 2002, the temperature on the first day of summer was 99°F . This is 4°F less than it was the previous year on the first day of summer. What was the temperature on the first day of summer in 2001?