

Spiral: Major Concepts

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Date_____ Period____

Evaluate each expression.

1) $\frac{1}{4} - \left(-\frac{1}{3}\right)$

2) $\left(-\frac{5}{8}\right) + \left(-\frac{1}{2}\right)$

3) $(-7) - (-2) - 7$

4) $3 + 2 + (-4)$

5) $(-4) - (-7) - 6$

6) $7 - (-7) + (-2)$

7) $(-2) + 4 - 6$

8) $6 + (-3) - (-4)$

Combine like terms.

9) $2v^4 - 2v^2 + 3v^4 + 3v^2$

10) $3a^3 - a - 5a^3 - 3a$

Simplify each expression.

11) $-x + 9x$

12) $p - 8 + p - 3$

13) $2(1 - 2n)$

14) $-3(m + 2)$

Find each quotient.

15) $\frac{-3}{2} \div \frac{4}{5}$

16) $\frac{-3}{2} \div \frac{15}{8}$

Solve each equation.

17) $-36 = x - 19$

18) $v - 1 = -6$

19) $5 = 2n + 1 - 4$

20) $8 = -3a - a$

21) $-3(6k - 1) = -141$

22) $98 = -7p - 3(3p - 6)$

Solve each proportion.

23) $\frac{8}{10} = \frac{7}{x}$

24) $\frac{5}{7} = \frac{10}{n}$

Evaluate each using the values given.

25) $j^2 + h$; use $h = 1$, and $j = 3$

26) $x - y + 1$; use $x = 4$, and $y = 3$

Find the GCF of each.

27) 44, 22

28) 22, 33

Find the LCM of each.

29) 20, 30

30) 25, 30

Evaluate each expression.

31) $(10 \times 2) \div 4$

32) $(6 \times 2) \div 4$

Solve each problem.

33) 74% of 70 is what?

34) 92 is what percent of 134?