

Summer Practice

Date _____ Period _____

Evaluate each expression.

1) $(-44) - (-19)$

2) $(-46) + (-29)$

3) $(-8) - (-41)$

4) $20 + (-14)$

5) $33 + (-44)$

6) $(-37) + (-33)$

7) $(-20) + 50$

Find each product.

8) $(12)(-4)$

9) $(-19)(2)$

10) $(-7)(20)$

11) $(-12)(16)$

12) $(6)(-19)$

Find each quotient.

13) $\frac{70}{5}$

14) $\frac{-21}{-7}$

15) $\frac{54}{3}$

16) $\frac{75}{-5}$

17) $\frac{24}{-2}$

Simplify each expression.

18) $v + 4 + v + 7$

19) $3x - 3x$

20) $-6x + 8x$

21) $-9x + 2 + x - 1$

22) $b - 5b$

23) $8 - 5v + 10 + 2v$

24) $2x + \frac{14}{5}x$

25) $\frac{1}{3}x - 2x$

26) $n + 0.5 - 9.8$

27) $-2.9 + 5.77p + 1 + 5.394p$

28) $-9.4n - 3.4n$

29) $3(3 + 2p)$

30) $-4(-2 + 3p)$

31) $-3(-x + 5)$

32) $-2(v - 1) - 7v$

33) $-10(m + 4) - 6m$

34) $-10(1 + 9v) - 4$

Find each quotient.

35) $-2.8 \div -0.5$

36) $-15.06 \div -0.1$

37) $-9 \div -0.2$

38) $13.4 \div 4$

Simplify each expression.

39) $\frac{3}{3n} \cdot \frac{3}{3n}$

40) $\frac{3}{2a} \cdot \frac{2}{2a}$

41) $\frac{2k}{3k} \cdot \frac{2}{2k}$

Solve each equation.

42) $-32 + x = -14$

43) $29x = 841$

44) $-1330 = 35p$

45) $32 = -2 - x$

$$46) 510 = 15x$$

$$47) 22 + n = -9$$

$$48) \frac{n}{32} = -4$$

$$49) \frac{p}{10} = 24$$

$$50) \frac{x}{38} = 16$$

$$51) -26x = -26$$

$$52) 3(6r - 5) = -87$$

$$53) -84 = 3(6n + 2)$$

$$54) -8(3x - 4) = -112$$

$$55) 128 = -4(4n - 4)$$

$$56) 5(3x - 4) + 3 = 88$$

Evaluate each expression.

$$57) 5 \times 6 - (8 - 4)$$

$$58) 12 - 4 - 7 + 7$$

$$59) 45 \div 3 - (4 + 1)$$

$$60) 13 + 9 - 3 - 15$$

$$61) 1 + (5 + 4) \div 9$$

$$62) (21 \times 2) \div (11 - 5)$$

Solve each problem.

$$63) 103 \text{ is what percent of } 112?$$

$$64) 240\% \text{ of } 76 \text{ is what?}$$

$$65) 74\% \text{ of } 82 \text{ is what?}$$

$$66) \text{ What is } 320\% \text{ of } 15?$$

$$67) 52\% \text{ of } 113 \text{ is what?}$$

Simplify each expression.

$$68) -\frac{32x^3}{28x^2}$$

$$69) \frac{24x^2}{48x}$$

70) $\frac{16a^2}{32a}$

Solve each equation for the indicated variable.

71) $g = -2a - 4$, for a

72) $g = \frac{2x}{3}$, for x

Solve each equation.

73) $4(3 + 5p) = 132$

74) $-6(1 + 6m) = -258$

75) $-2(6p - 6) - 5 = 91$

Evaluate each using the values given.

76) $(x^2 + y) \div 2$; use $x = 3$, and $y = 1$

77) $p(q - q) + m$; use $m = 5$, $p = 6$, and $q = 6$

78) $x^2(y - x)$; use $x = 2$, and $y = 5$

79) $(y - x)\left(z - \frac{y}{4}\right)$; use $x = 1$, $y = 4$, and $z = 6$

80) $y - \left(y - \frac{zy}{2}\right)$; use $y = 5$, and $z = 2$

81) $6 - \left(p - q - \frac{p}{3}\right)$; use $p = 3$, and $q = 1$

Find the slope of the line through each pair of points.

82) $(19, 19), (6, 14)$

83) $(16, 12), (-19, 6)$

84) $(16, -17), (-20, -15)$

85) $(0, -7), (-8, 0)$

Find the mode, median, and mean for each data set.

86) Hits in a Round of Hacky Sack

4	13	18	5	9	12	5
3	13	3	3	4	8	6
20	4					

87) Hours Slept

5.75	7.75	7.75	6.5	7
7	7.75	6.75	7.25	6.75
6.5	7.25	7.5	7.5	7.25

88)

Test Scores

49	40	34	51	44	44	55
51	42	55	45	50	54	38
55						

- 89) Totsakan and Sarawong are selling pies for a school fundraiser. Customers can buy cherry pies and blackberry pies. Totsakan sold 10 cherry pies and 3 blackberry pies for a total of \$157. Sarawong sold 5 cherry pies and 6 blackberry pies for a total of \$164. What is the cost each of one cherry pie and one blackberry pie?
- 90) Nicole and Stefan are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and strawberry cheesecakes. Nicole sold 10 pecan cheesecakes and 8 strawberry cheesecakes for a total of \$350. Stefan sold 5 pecan cheesecakes and 7 strawberry cheesecakes for a total of \$235. What is the cost each of one pecan cheesecake and one strawberry cheesecake?
- 91) A cargo plane left London and flew east at an average speed of 190 mph. A passenger plane left sometime later flying in the same direction at an average speed of 285 mph. After flying for eight hours the passenger plane caught up with the cargo plane. Find the number of hours the cargo plane flew before the passenger plane caught up.
- 92) Eduardo drove to his cabin on the lake and back. On the trip there he drove 40 mph and on the return trip he went 32 mph. How long did the trip there take if the return trip took five hours?
- Solve each question. Round your answer to the nearest hundredth.**
- 93) Working alone, Mofor can oil the lanes in a bowling alley in six hours. Natalie can oil the same lanes in nine hours. Find how long it would take them if they worked together.
- 94) Working alone, Julio can tar a roof in six hours. Huong can tar the same roof in five hours. How long would it take them if they worked together?
- 95) Working alone, it takes Beth seven hours to pour a large concrete driveway. Wilbur can pour the same driveway in six hours. How long would it take them if they worked together?