

Name: _____

Find the sum.

1) $27.95 + 1.247 + 2.508 + 9.4$

2) $387.2 + 0.76 + 38.13 + 19 + 8.4$

Subtract the following numbers.

3) $8.932 - 2.598$

Simplify.

4) $3 + 7(7 - 4)$

Round as indicated.

5) 34,246 to the nearest thousand

6) 5717 to the nearest thousand

First use front end rounding to estimate the answer; then find the exact answer.

7) Pat had \$952 in her checking account. If she wrote checks for \$149 and \$336, how much remained in her account?

8) The fully loaded car cost \$2359 more than the basic model. If the basic model cost \$18,412, what did the fully loaded car cost?

Multiply.

9)
$$\begin{array}{r} 0.304 \\ \times 0.3 \\ \hline \end{array}$$

Solve the problem.

10) A grocer sold 39 bags of potatoes for \$1.37 each. What was the total amount of the sale?

Divide the following numbers.

11) $9 \overline{)1.44}$

Divide.

12) $4 \overline{)440}$

Write the fraction in lowest terms.

13) $\frac{60}{76}$

14) $\frac{63}{72}$

Multiply. Write the product in lowest terms.

15) $\left(\frac{7}{8}\right)\left(-\frac{8}{9}\right)$

16) $\left(\frac{7}{9}\right)\left(\frac{2}{5}\right)$

17) $\frac{7}{15}$ of 90

18) $\frac{2}{15}$ of 90

Divide. Write the quotient in lowest terms.

19) $\frac{3}{14} \div 1\frac{1}{4}$

20) $\frac{1}{2} \div 3\frac{1}{3}$

21) $\frac{4}{5} \div 2\frac{1}{2}$

22) $\frac{1}{4} \div \frac{1}{2}$

Simplify.

23) $\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{2} - \frac{5}{16}\right)$

24) $\frac{1}{2} \div \frac{1}{4} \cdot \frac{1}{5}$

Solve the problem.

25) Karl Mason sold $\frac{3}{12}$ gross of data disks on

Monday, $\frac{1}{12}$ gross on Tuesday, and $\frac{5}{12}$ on

Wednesday. What was the total gross sold?

26) Jeff studied math for 4 hours, history for $4\frac{1}{3}$

hours, and physics for $1\frac{8}{9}$ hours. How long

did he study?

- 27) A trawler caught $\frac{2}{3}$ ton of fish Monday and $\frac{2}{3}$ ton of fish Tuesday, but had to throw back $\frac{1}{5}$ ton. How many tons of fish remained from the two days' catch?

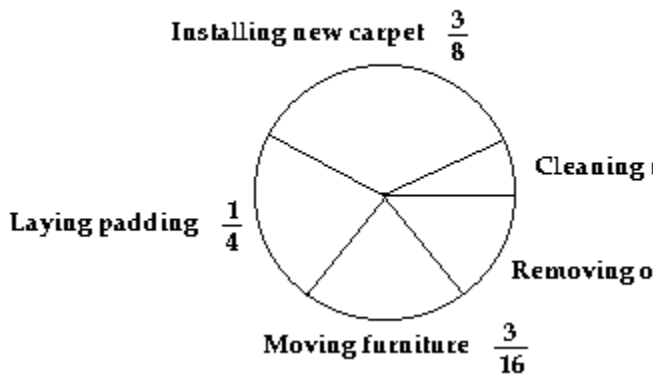
First, round the mixed numbers to the nearest whole number and estimate the answer. Then find the exact answer and write it in simplest form.

28) $11\frac{1}{2} + 15\frac{2}{9}$

29) $15 - 6\frac{1}{5}$

Refer to the pie graph to answer the exercise.

Time Required to Install Carpeting in a J



- 30) What fraction of the work shift was spent moving furniture and cleaning up?

Add.

31) $2 + -12 + 7$

32) $1 + -18 + 3$

33) $10 + -5 + -18 + 1$

Subtract.

34) $-10 - -10$

35) $-19 - -17$

36) $-19 - -5$

Simplify.

37) $-15 + -11 - -16$

38) $-18 + -19 - -7$

Multiply.

39) $6 \cdot -8$

40) $-1 \cdot -79 \cdot -1 \cdot 27$

41) $-1 \cdot -53 \cdot -1 \cdot 49$

42) $-9 \cdot -3 \cdot 3$

Divide.

43) $\frac{-11}{0}$

44) $\frac{0}{-26}$

45) $\frac{-16}{8}$

Round as indicated.

46) -2878 to the nearest ten

47) $-19,311$ to the nearest hundred

48) $-57,525$ to the nearest thousand

Simplify the given expression. Write the answer with variables in alphabetical order and any constant term last.

49) $13 + 6t + 10$

Simplify by using the associative property of multiplication.

50) $9(6t)$

Use the distributive property to simplify this expression.

51) $7(t + 4)$

52) $-3(4k - 2)$

Simplify the given expression.

53) $-3 + 3(-2w + 8) + 3(8w - 1)$

54) $-3 + 3(-2w + 10) + 5(8w - 1)$

Select the solution of the given equation from the answer choices provided.

55) $y + 2 = 11$

A) -9

B) -13

C) 9

D) 13

Solve the equation.

56) $\frac{1}{5} + x = 5$

57) $\frac{1}{4}a - \frac{1}{4} = -4$

Solve the equation and check your solution.

58) $-1.5 = 4.7 + x$

Solve the given equation.

59) $-9m = 27$

60) $2g = 0$

Solve this equation.

61) $-x = -38$

Solve the equation.

62) $3t + 29 = 32$

63) $27 = 5y + 32$

64) $18r + 2 = 2$

65) $4j + 7 = 2j + 11$

66) $-14 + 30y = 35y + 1$

67) $7k + 21 = 0$

68) $g - 9 = 24 - 10g$

Use the distributive property to help solve the given equation.

69) $6(z - 10) = 18$

70) $-18 = 9(y + 7)$

71) $-7(m - 8) = 0$

72) $8(w - 13) = -24$

73) $8(w - 6) = -24$

Solve the problem.

74) If twice a number is increased by 3, the result is -23. Find the number.

75) The sum of 5 and four times a number is -27. Find the number.

76) If four times Tom's daughter's age is decreased by 8, the result is Tom's age. If his daughter is 11 years old, how old is Tom?

77) A high school graduating class is made up of 488 students. There are 150 more girls than boys. How many boys are in the class?

78) A baseball team played a total of 168 games last season. They had 36 fewer wins than losses. How many games did the team win?

Answer Key

Testname: MATH 0306 DEPARTMENTAL REVIEW(NON CALCULATOR)

- | | |
|--|--------------------|
| 1) 41.105 | 31) -3 |
| 2) 453.49 | 32) -14 |
| 3) 6.334 | 33) -12 |
| 4) 24 | 34) 0 |
| 5) 34,000 | 35) -2 |
| 6) 6000 | 36) -14 |
| 7) estimate: \$1000 - \$100 - \$300 = \$600; exact: \$467 | 37) -10 |
| 8) estimate: \$20,000 + \$2000 = \$22,000; exact: \$20,771 | 38) -30 |
| 9) 0.0912 | 39) -48 |
| 10) \$53.43 | 40) 2133 |
| 11) 0.16 | 41) 2597 |
| 12) 110 | 42) 81 |
| 13) $\frac{15}{19}$ | 43) undefined |
| 14) $\frac{7}{8}$ | 44) 0 |
| 15) $-\frac{7}{9}$ | 45) -2 |
| 16) $\frac{14}{45}$ | 46) -2880 |
| 17) 42 | 47) -19,300 |
| 18) 12 | 48) -58,000 |
| 19) $\frac{6}{35}$ | 49) $6t + 23$ |
| 20) $\frac{3}{20}$ | 50) $54t$ |
| 21) $\frac{8}{25}$ | 51) $7t + 28$ |
| 22) $\frac{1}{2}$ | 52) $-12k + 6$ |
| 23) $\frac{1}{48}$ | 53) $18w + 18$ |
| 24) $\frac{2}{5}$ | 54) $34w + 22$ |
| 25) $\frac{3}{4}$ gross | 55) C |
| 26) $10\frac{2}{9}$ hr | 56) $\frac{24}{5}$ |
| 27) $\frac{17}{15}$ ton(s) | 57) -15 |
| 28) $26\frac{13}{18}$ | 58) -6.2 |
| 29) $8\frac{4}{5}$ | 59) $m = -3$ |
| 30) $\frac{1}{4}$ | 60) $g = 0$ |
| | 61) $x = 38$ |
| | 62) $t = 1$ |
| | 63) $y = -1$ |
| | 64) $r = 0$ |
| | 65) $j = 2$ |
| | 66) $y = -3$ |
| | 67) $k = -3$ |
| | 68) $g = 3$ |
| | 69) $z = 13$ |
| | 70) $y = -9$ |
| | 71) $m = 8$ |
| | 72) $w = 10$ |
| | 73) $w = 3$ |
| | 74) -13 |
| | 75) -8 |

Answer Key

Testname: MATH 0306 DEPARTMENTAL REVIEW(NON CALCULATOR)

76) 36 years old

77) 169 boys

78) 66 games