

MAT0018 Final Exam Study Guide

1. Write out the number 63,203 in words.
2. Write out the number three hundred twenty thousand forty-one.
3. Add: $8,257 + 392 + 459$
4. Subtract: $71,034 - 19,867$
5. Add: $\frac{4}{5} + \frac{2}{9}$
6. Add: $6\frac{1}{7} + 2\frac{3}{4}$
7. Subtract: $\frac{6}{7} - \frac{1}{3}$
8. Subtract: $9\frac{1}{12} - 4\frac{1}{3}$
9. Solve: $\frac{1}{5}x + 4 = -21$
10. Convert the decimal to a percent: 0.03
11. Convert the decimal to a percent: 0.49
12. Convert the decimal to a percent: 8.71
13. Simplify: $|23| - |-51|$
14. Simplify: $|-34| + |18|$
15. Simplify: $56 \div 8 \cdot 2^2 + 19$
16. What is 132 less than 61?
17. What is -57 decreased by -21?
18. Using the formula $P = 2L + 2W$, find W if $P = 42$ and $L = 13$
19. Simplify: $\frac{\frac{4}{11}}{\frac{8}{33}}$

20. Simplify: $\frac{-12+2(-7)}{14-27}$
21. Simplify: $11 - 5(12 - 2^3)$
22. Convert the percent to a decimal: 85%
23. Convert the percent to a decimal: 2%
24. Convert the percent to a decimal: 9.17%
25. Write the decimal as a fraction in lowest terms: 0.72
26. Write the decimal as a fraction in lowest terms: 0.05
27. Write the decimal as a fraction in lowest terms: 0.39
28. Write the fraction as a decimal: $\frac{3}{10}$
29. Write the fraction as a decimal: $\frac{41}{50}$
30. Write the fraction as a decimal: $\frac{4}{5}$
31. Write the fraction as a decimal: $\frac{29}{100}$
32. Given that $1 \text{ ft}^2 = 144 \text{ in}^2$, convert 15 ft^2 into in^2
33. Given that 1 liter = 1.06 quarts, convert 23 liters into quarts
34. Given that 1 pound = 16 ounces, convert 48 ounces into pounds.
35. If $\frac{1}{8}$ of the 232 students at a party like chocolate ice cream, how many students like chocolate ice cream.
36. Round 837,594 to the nearest ten.
37. Round 837,594 to the nearest thousand.
38. Round 837,594 to the nearest hundred thousand.
39. Round 2,571.8925 to the nearest tenth.
40. Round 2,571.8925 to the nearest thousandth.

41. Round 2,571.8925 to the nearest hundredth.
42. Eighteen more than two times a number is the same as eight times the number. Find the number.
43. Find the area of a rectangle with length of 9 in. and width of 7 in.
44. Find the area of a triangle with base of 11 yd. and height of 4 yd.
45. Add: $3.914 + 8.73$
46. Subtract: $31.415 - 42.85$
47. Multiply: $2.1(-6.8)$
48. Divide: $-27.47 \div (-4.1)$
49. What percent of 80 is equal to 16?
50. 15% of 120 is equal to what number?
51. 18% of what number is equal to 90?
52. Solve: $2(x - 7) + 4 = 4(3x + 5)$
53. Solve: $3x + 9 = -12$
54. Solve: $-9x = 63$
55. Solve: $2x - 11 = 3$
56. Solve: $5x + 7 = 3x - 9$
57. Solve: $\frac{1}{4}x - 8 = 2$
58. In a cake recipe, 2 teaspoons are needed for every 1 cup of sugar. Show may teaspoons of vanilla are needed if 5 cups of sugar are added?
59. If a car travels 350 miles in 7 hours, what is the rate of the car in miles per hour?

MAT0018 Final Exam Study Guide Answers

1. Sixty-three thousand two hundred three.
2. 320,041
3. 9,108
4. 51,167
5. $\frac{46}{45}$ or $1\frac{1}{45}$
6. $8\frac{25}{28}$
7. $\frac{11}{21}$
8. $4\frac{3}{4}$
9. -125
10. 3%
11. 49%
12. 871%
13. -28
14. 52
15. 47
16. -71
17. -36
18. $W = 8$
19. $\frac{3}{2}$
20. 2
21. -9
22. 0.85
23. 0.02
24. 0.0917
25. $\frac{18}{25}$
26. $\frac{1}{20}$
27. $\frac{39}{100}$
28. 0.3
29. 0.82
30. 0.8
31. 0.29
32. 2160 in²
33. 24.38 quarts
34. 3 pounds
35. 29 students
36. 837,590
37. 838,000
38. 800,000
39. 2,571.9
40. 2,571.893
41. 2,571.89
42. 3
43. 63 in²
44. 22 yd²
45. 12.644
46. -11.435
47. -14.28
48. 6.7
49. 20%
50. 18
51. 500
52. $x = -3$
53. $x = -7$
54. $x = -7$
55. $x = 7$
56. $x = -8$
57. $x = 40$
58. 10 teaspoons
59. 50 miles per hour