

(For questions regarding any problem below, please ask your instructor or go to the Math Lab-bldg.72 and speak with a tutor)

1. Write in lowest terms: $\frac{24x^2y}{40xy}$

A. $\frac{5x}{3}$

B. $64x^3y^2$

C. $\frac{3x}{5}$

D. $\frac{12xy}{20}$

2. What is the place value of the 3 in 2,245.231

A. tenths

B. hundredths

C. thousandths

D. ten thousandths

3. Change 0.34 to a percent.

A. 0.34%

B. 3.4%

C. 34%

D. $\frac{34}{100}\%$

4. Write the expression "twice the difference of 15 and 3"

A. $2(15) - 3$

B. $2(15 - 3)$

C. $2(15) + 3$

D. $2(15 + 3)$

5. Which of the following is a solution to the equation $5x + 1 = 4x - 7$?

A. 8

B. -8

C. 6

D. -6

6. Multiply and Simplify: $-\frac{6}{3} \cdot \frac{4}{3}$

A. $-\frac{8}{3}$

B. $-\frac{24}{9}$

C. $\frac{8}{3}$

D. $-\frac{3}{2}$

7. Round 138.0688 to the nearest hundredth.

A. 138.06

B. 138.069

C. 138.07

D. 100

8. Which of the following is divisible by the numbers 3, 5, 6, and 10?

A. 18

B. 45

C. 60

D. 50

9. Five is the solution to which equation?

- A. $4x + 6 = 2x + 4$ B. $4x - 6 = 2x + 4$ C. $4x + 6 = 2x - 4$ D. $4x - 6 = 2x - 4$

10. Divide and Simplify: $\frac{3}{4} \div \frac{9}{2}$

- A. 6 B. $\frac{1}{6}$ C. $3\frac{3}{8}$ D. $\frac{6}{36}$

11. Subtract and Simplify: $\frac{3}{5} - \left(-\frac{1}{10}\right)$

- A. $\frac{2}{25}$ B. $\frac{2}{15}$ C. $\frac{7}{10}$ D. $\frac{1}{2}$

12. Change 92% to a decimal.

- A. 92.0 B. 0.92 C. 9.2 D. 0.092

13. Which of the following is a standard metric system unit of length?

- A. meter B. feet C. mile D. gram

14. Add and Simplify: $5 + \left(-\frac{4}{5}\right)$

- A. $5\frac{1}{5}$ B. $4\frac{1}{5}$ C. $5\frac{4}{5}$ D. $4\frac{4}{5}$

15. Add $0.026 + 1.58 + 6$

- A. 7.602 B. 0.29 C. 7.506 D. 7.606

16. Find the area for the rectangle with length 40 yards and width 20 yards.

- A. 600 yards² B. 90 yards² C. 120 yards² D. 800 yards²

17. Convert 6 inches to centimeters. (2.54cm=1in)

- A. 15.24cm B. 12.54cm C. 6.54cm D. 16.54cm

18. Multiply and Simplify: $\left(\frac{3}{4}\right)^2 \cdot \frac{8}{9}$

A. $\frac{1}{2}$

B. $\frac{2}{3}$

C. $\frac{18}{36}$

D. $\frac{4}{5}$

19. Subtract $7.851 - 1.521$

A. 5.33

B. 6

C. 9.372

D. 6.33

20. Write 35% as a fraction in lowest terms.

A. $\frac{3}{20}$

B. $\frac{9}{20}$

C. $\frac{7}{20}$

D. $\frac{11}{20}$

21. Find the perimeter for the rectangle with length 40 yards and width 20 yards.

A. 60 yards

B. 90 yards

C. 120 yards

D. 800 yards

22. Convert 9 feet to inches. (12 inches = 1 foot)

A. 12 in

B. 108 in

C. 64 in

D. 98 in

23. Subtract: $5,908 - 2,759$

A. 3,141

B. 3,149

C. 2, 149

D. 2, 141

24. Multiply: $(3.4)(-0.045)$

A. -1.53

B. 2.04

C. -0.153

D. 33

25. If an appliance salesperson gets 9% commission on all the appliances she sells, what is the price of a refrigerator if her commission is \$67.50?

A. \$570

B. \$705

C. \$507

D. \$750

26. Simplify: $7(9)^2 - 6(4)^3$

A. -9855

B. 183

C. 3393

D. 180

27. Simplify: $\frac{1}{5} (12.5) + \frac{1}{3} (2.1)$

A. 12

B. 3.2

C. 0.32

D. 1.2

28. Change $\frac{1}{5}$ to a percent.

A. 5%

B. 10%

C. 15%

D. 20%

29. Find the area of the triangle with base 2 yards and height 3 yards.

A. 6 yd^2

B. 12 yd^2

C. 3 yd^2

D. 18 yd^2

30. Subtract 15 from 107

A. 92

B. -92

C. 1607

D. 7

31. Simplify: $(-2)^4 - 2^2$

A. -20

B. 12

C. 4

D. -12

32. Change $\left(\frac{54}{8}\right)$ to a mixed number

A. $7\frac{3}{4}$

B. $6\frac{3}{4}$

C. $5\frac{6}{8}$

D. $8\frac{6}{8}$

33. Change $2\frac{1}{8}$ to a percent.

A. 212.5%

B. 17%

C. 12.5%

D. 2.8%

34. Find the perimeter of the triangle with sides 5 inches, 6 inches, and 7 inches in length.

A. 17 inches

B. 18 inches

C. 19 inches

D. 210 inches

35. Simplify: $7 - 9 - 4 - 6$

A. 26

B. -26

C. 12

D. -12

36. Change $\left(3\frac{3}{5}\right)$ to an improper fraction

A. $\frac{11}{5}$

B. $\frac{9}{15}$

C. $\frac{9}{5}$

D. $\frac{18}{5}$

37. Divide: $0.541 \div 0.53$ and round to the nearest hundredth

A. 0.12

B. 1.02

C. 1.00

D. 1.03

38. Solve $2(x - 4) + 3 = 4(x + 1)$

A. -9

B. $\frac{9}{2}$

C. -2

D. $-\frac{9}{2}$

39. Add $\frac{4}{7} + \frac{3}{5}$

A. $\frac{7}{12}$

B. $\frac{7}{35}$

C. $\frac{41}{35}$

D. $\frac{35}{41}$

40. Solve $\frac{1}{8}x - 3 = 5$

A. -64

B. 16

C. 64

D. -16

41. Simplify $|12| - |-19|$

A. -7

B. 31

C. 7

D. -31

42. Six more than twice a number is equal to seven. Find the number.

A. 2

B. $\frac{1}{2}$

C. 5

D. 3

43. Simplify $\frac{\frac{3}{4}}{\frac{9}{16}}$

A. $\frac{3}{4}$

B. $\frac{4}{3}$

C. $\frac{27}{64}$

D. 2

44. Simplify $\frac{-4 + 4(-4)}{4 - 12}$

A. $\frac{2}{5}$

B. 5

C. 4

D. $\frac{5}{2}$

45. Subtract $\frac{1}{3} - \frac{1}{7}$

A. 0

B. $\frac{4}{21}$

C. $\frac{1}{4}$

D. $-\frac{1}{4}$

MAT0012 Final Exam Review Answers

1. C
2. B
3. C
4. B
5. B
6. A
7. C
8. C
9. B
10. B
11. C
12. B
13. A
14. B
15. D
16. D
17. A
18. A
19. D
20. C
21. C
22. B
23. B
24. C
25. D
26. B
27. B
28. D
29. C
30. A
31. B
32. B
33. A
34. B
35. D
36. D
37. B
38. D
39. C
40. C
41. A
42. B
43. B
44. D
45. B