

Name: _____

MAT 008 Midterm Examination Review

*The actual exam will be **MULTIPLE CHOICE**.*

1. Round 2,602,000 to the nearest hundred thousand.
2. Subtract: $12,301 - 867$.
3. Compute: $22 - 2 \times 3^2$
4. Each week you spend \$105 on groceries. How much do you spend on groceries in 52 weeks?
5. You're attending a college at which your expenses consist of \$2,988 in tuition, \$524 in student fees, and \$297 in textbooks. What are your total expenses?
6. Your will requires that your estate of \$39,117 be split among your 13 grandchildren. How much does each grandchild get?
7. Your scores on the last four exams are 80, 72, 80, and 88. Find the average (mean).
8. There are 16 women and 4 men in this class. What fraction of the class is men?
9. Simplify: $\frac{12}{20}$
10. Simplify: $\frac{18}{4}$
11. Add and simplify: $\frac{2}{7} + \frac{3}{14}$
12. Find the sum of $2\frac{1}{4}$ and $5\frac{1}{8}$.
13. Subtract and simplify: $\frac{3}{8} - \frac{1}{3}$
14. Find the difference of $3\frac{1}{6}$ and $1\frac{2}{3}$.
15. Multiply and simplify: $\frac{2}{5} \cdot \frac{5}{6}$
16. Multiply and simplify: $2\frac{1}{4} \cdot 20$
17. Divide and simplify: $\frac{5}{8} \div \frac{3}{4}$
18. Divide and simplify: $8\frac{1}{2} \div 17$
19. Five-sixths of the students passed the test. If there are 36 students in the class, how many did NOT pass?
20. You want to serve each of your guests a hamburger weighing $\frac{2}{3}$ of a pound. If you bought 8 pounds of hamburger meat, how many hamburgers can you serve?

21. If 3 pieces are cut from an 8-foot length of wood, each piece $2\frac{1}{6}$ feet long, how much is left?
22. Thirty out of one hundred senators voted for the bill. What fraction voted for the bill?
23. If you have $2\frac{1}{4}$ cups of oil mixed with $3\frac{1}{2}$ cups of oil, how much oil do you have?
24. Find the smallest number: $\frac{2}{5}, \frac{1}{5}, \frac{1}{6}, \frac{2}{9}$

Compute:

25. $122 + 2.7 + 0.3$
26. $100 - 23.88$
27. 0.4×12.5
28. $12.5 \div 0.5$
29. Round to the nearest tenth: 70 divided by 29
30. Write as a decimal: $\frac{3}{25}$
31. Write as a fraction in lowest terms: 0.05
32. Write in increasing order: 2.222, 2.099, 2.1, 3.01
33. Maria makes \$10.25 an hour. How many hours must she work to make \$2050?
34. If gas costs \$2.20 per gallon, and you drive 130 miles (at 10 miles per gallon), how much will your trip cost?
35. Joe needs to buy 24 bottles of soda. Each bottle is \$1.75 including tax. If he has a hundred dollar bill, how much change will he get?
36. List all the factors of 16.
37. Compute, writing your answer as a decimal: $0.2 + 2\left(\frac{4}{5}\right)$
38. Write in order from least to greatest: $0.4, \frac{3}{5}, \frac{3}{4}, \frac{1}{2}$
39. One-third of a deceased person's estate went to the children, one-sixth went to the siblings, and the rest to charity. What fraction went to charity?
40. A recipe called for $1\frac{3}{8}$ cups of flour. If this recipe serves 4, and you want to serve 8, how much flour should you use?
41. It takes $4\frac{1}{2}$ times as long to travel to Buffalo by train as it does by plane. If it takes 2 hours by plane, then how long is the train trip to Buffalo?
42. Write thirteen thousand seven in standard form.

MAT 008 Practice Midterm Answer Key

1. 2,600,000
2. 11,434
3. 4
4. \$5,460
5. \$3,809
6. \$3,009
7. 80
8. $\frac{1}{5}$
9. $\frac{3}{5}$
10. $\frac{9}{2} = 4\frac{1}{2}$
11. $\frac{1}{2}$
12. $7\frac{3}{8}$
13. $\frac{1}{24}$
14. $1\frac{1}{2}$
15. $\frac{1}{3}$
16. 45
17. $\frac{5}{6}$
18. $\frac{1}{2}$
19. 6
20. 12
21. $1\frac{1}{2}$
22. $\frac{3}{10}$
23. $5\frac{3}{4}$
24. $\frac{1}{6}$
25. 125
26. 76.12
27. 5
28. 25
29. 2.4
30. 0.12
31. $\frac{1}{20}$
32. 2.099, 2.1, 2.222, 3.01
33. 200
34. \$28.60
35. \$58
36. 1, 2, 4, 8, 16
37. 1.8
38. $0.4, \frac{1}{2}, \frac{3}{5}, \frac{3}{4}$
39. $\frac{1}{2}$
40. $2\frac{3}{4}$
41. 9 hours
42. 1307