MA052

Final Exam

Name:_____

Date:_____

1. Add: 4,216
         3,191
       +   578

   a. 7,915   b. 7,985   c. 7,965   d. 7,875

2. Subtract: 2,318
            − 1,499

   a. 819   b. 1,181   c. 881   d. 829

3. Multiply: $2 \times 3 \times 5 \times 9$

   a. 275   b. 225   c. 360   d. 270

4. Divide: $8 \overline{)60,328}$

   a. 52,541   b. 7,541   c. 8,893   d. 8,041

5. Write this expression using exponents: $5 \times 5 \times 5 \times 5$

   a. 5^2 b. 5×4 c. 5^4 d. 4^5

6. Round to the thousands place: 35,709

   a. 35,700   b. 35,000   c. 36,000   d. 35,710

7. Simplify, following the order of operations: $5^2 - 2 \times 10 + 3^2 \times 2 - 20 \div 4$

   a. 87   b. 18   c. 114   d. 529

8. Professor Ranjan corrected some final exams, and it took him $5\frac{1}{4}$ hours. His teaching assistant corrected the rest of the exams, and it took her $8\frac{5}{6}$ hours. How many hours total did it take to correct all the exams?

   a. $14\frac{1}{12}$ hours   b. $14\frac{3}{5}$ hours   c. $13\frac{3}{5}$ hours   d. $13\frac{3}{10}$ hours

9. David ran the Boston Marathon, 26 miles, in $3\frac{1}{2}$ hours. What was his average rate of speed?

   a. $7\frac{1}{2}$ miles per hour   b. $7\frac{4}{7}$ miles per hour   c. $7\frac{3}{8}$ miles per hour   d. $7\frac{3}{7}$ miles per hour

10. Michael is a math tutor who charges $25 per hour. Last month he made $1,075 tutoring. How many total hours did he work as a tutor?

    a. 53 hours   b. 403 hours   c. 45 hours   d. 43 hours

11. Simplify: $\frac{822}{56}$

    a. $\frac{28}{56}$ b. $\frac{411}{28}$ c. $\frac{411}{56}$ d. $\frac{411}{14}$

12. Add: $\dfrac{1}{3}+\dfrac{2}{7}$ a. $\dfrac{3}{10}$ b. $\dfrac{6}{8}$ c. $\dfrac{13}{21}$ d. $\dfrac{2}{21}$

13. Subtract: $16\dfrac{1}{8}-5\dfrac{3}{4}$ a. $10\dfrac{3}{8}$ b. $11\dfrac{1}{2}$ c. $3\dfrac{1}{4}$ d. $12\dfrac{1}{8}$

14. Multiply: $\dfrac{5}{12}\times2\dfrac{2}{3}$ a. $1\dfrac{1}{9}$ b. $2\dfrac{5}{9}$ c. $\dfrac{5}{9}$ d. $2\dfrac{1}{9}$

15. Divide: $2\dfrac{1}{7}\div3\dfrac{1}{4}$ a. $6\dfrac{27}{28}$ b. $\dfrac{60}{91}$ c. $1\dfrac{2}{5}$ d. $\dfrac{2}{3}$

16. What is the least common denominator of $\dfrac{17}{50}$ and $\dfrac{4}{15}$?

    a. 50   b. 5   c. 150   d. 750

17. A rectangular garden measures $4\dfrac{7}{8}$ yards by $9\dfrac{1}{4}$ yards. Find the area of the garden in square yards.

    a. $5\dfrac{7}{8}$ sq. yds.   b. $36\dfrac{7}{32}$ sq. yds.   c. $45\dfrac{3}{32}$ sq. yds.   d. $8\dfrac{5}{8}$ sq. yds.

18. How many $\dfrac{3}{4}$-pound packages of meat can be prepared from 60 pounds of meat?

    a. 80 packages   b. 45 packages   c. 60 packages   d. 50 packages

19. Martha bought a bolt of fabric. She gave $\dfrac{1}{3}$ of it to her daughter and $\dfrac{2}{5}$ of it to her neighbor. What portion of the bolt did she have left?

    a. $\dfrac{13}{15}$ bolt   b. $\dfrac{2}{5}$ bolt   c. $\dfrac{12}{15}$ bolt   d. $\dfrac{4}{15}$ bolt

20. Mary Ann follows her investments in the stock market daily. Over a five-day period she gained $98.87, gained $14.24, lost $88.18, gained $23.44, and lost $49.00. How much did she lose overall?

    a. $22.01   b. $100.37   c. $0.63   d. $50.49

21. What decimal is written in words "five and four hundred sixty-seven ten thousandths"?

   a. 5.467   **b.** 5.0467   **c.** 5,647,000   **d.** 0.5467

22. Write 0.0155 as a fraction in simplest form.

   a. $\dfrac{3}{2000}$ **b.** $\dfrac{31}{200}$ **c.** $\dfrac{31}{2000}$ **d.** $\dfrac{3}{20}$

23. Order 0.709, 0.710, 0.79, and 0.079 from smallest to largest.

   a. 0.079, 0.709, 0.710, 0.79   **b.** 0.079, 0.79, 0.709, 0.710

   c. 0.79, 0.709, 0.710, 0.079   **d.** 0.79, 0.079, 0.709, 0.710

24. Round 57.30945 to the nearest thousandth.

   a. 57.3095   **b.** 57.309   **c.** 57.31   **d.** 57.3

25. Multiply: 2.04518×10^3

   a. 204.518   **b.** 0.00204518   **c.** 2045.18   **d.** 0.0204518

26. Evaluate: $8.25 \div 0.15$

   a. 55   **b.** 0.55   **c.** 0.1375   **d.** 75

27. Find the sum: $9 + 6.9 + 0.223$

   a. 0.292   **b.** 0.382   **c.** 16.123   **d.** 7.123

28. Find the difference: $6.004 - 0.4$

   a. 2.004   **b.** 6   **c.** 5.604   **d.** 5.964

29. Evaluate: $6 - 0.881 + 4.3$

   a. 7.78   **b.** 2.381   **c.** 2.219   **d.** 9.419

30. Multiply: $\begin{array}{r} 7.251 \\ \times\, 0.027 \\ \hline \end{array}$

   a. 1.9575   **b.** 19.5777   **c.** 0.19575   **d.** 0.195777

31. Divide and round your answer to the nearest tenth: $0.34\overline{)9.67}$

   a. 32.3   **b.** 28.4   **c.** 22.5   **d.** 28.7

32. Write $\dfrac{3}{8}$ as a decimal.

   a. $0.\overline{4}$ **b.** $2.\overline{6}$ **c.** 0.375   **d.** 0.4375

33. Evaluate: $(0.24)^2 \div 0.16 + 0.32 \times 0.1$

   a. 0.068   **b.** 0.012   **c.** 0.3   **d.** 0.392

34. A butcher has 66 pounds of meat. He wants to pack the meat into packages weighing 0.75 pounds each. How many packages can he make?

   a. 49.5 packages   **b.** 80 packages   **c.** 86 packages   **d.** 88 packages