

MATH 5 TEST 4

Name _____

Date _____

Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators!

- Round 64,646.464646 to the nearest ten-thousandths place.
 (A) 60,000 (B) 64,000 (C) 65,000 (D) 64,646.4646 (E) 64,464.46465
- Which of the following has the smallest divisor?
 (A) $8\frac{17}{29} \div 4\frac{15}{23}$ (B) $8\frac{17}{28} \div 4\frac{15}{22}$ (C) $8\frac{17}{31} \div 4\frac{15}{19}$ (D) $8\frac{17}{26} \div 4\frac{15}{28}$ (E) $8\frac{17}{25} \div 4\frac{15}{26}$
- For 246,813.579275, what is the product of the ten thousands digit and the ten-thousandths digit?
 (A) 4 (B) 8 (C) 12 (D) 42 (E) 54
- Of the 511 students, $\frac{189}{511}$ of the students have a dog and $\frac{178}{511}$ have a cat. What fraction of the students does not have a dog or a cat? Assume no student has a dog and a cat.
 (A) $\frac{144}{511}$ (B) $\frac{154}{511}$ (C) $\frac{164}{511}$ (D) $\frac{244}{511}$ (E) $\frac{254}{511}$
- Which of the following is the smallest number?
 (A) 7.09 (B) 7.08746 (C) 7.1 (D) 7.088 (E) 7.0875
- What is the product of the two smallest prime numbers larger than 47?
 (A) 2,703 (B) 2,907 (C) 2,915 (D) 3,021 (E) 3,127
- What is the difference between five and three hundredths, and three ten-thousandths?
 (A) 4.9297 (B) 5.0297 (C) 5.0303 (D) 5.0307 (E) 5.0397
- Express 0.064 as a reduced fraction.
 (A) $\frac{2}{25}$ (B) $\frac{4}{25}$ (C) $\frac{6}{25}$ (D) $\frac{8}{25}$ (E) $\frac{8}{125}$
- After rounding each of the following fractions to the nearest whole number, which would be the smallest?
 (A) $78\frac{62}{122}$ (B) $78\frac{69}{136}$ (C) $78\frac{78}{154}$ (D) $78\frac{97}{196}$ (E) $78\frac{106}{211}$
- Simplify $\frac{71}{191} - \frac{28}{191} + \frac{10}{191}$
 (A) $\frac{33}{191}$ (B) $\frac{43}{191}$ (C) $\frac{53}{191}$ (D) $\frac{63}{191}$ (E) $\frac{64}{191}$
- Which of the following will produce the largest quotient?
 (A) $\frac{11}{19} \div \frac{3}{7}$ (B) $\frac{11}{19} \div \frac{9}{20}$ (C) $\frac{11}{19} \div \frac{15}{34}$ (D) $\frac{11}{19} \div \frac{18}{41}$ (E) $\frac{11}{19} \div \frac{24}{55}$
- Which of the following will produce the smallest difference?
 (A) $8.6 - 3.88$ (B) $8.5 - 3.88$ (C) $8.4 - 3.88$ (D) $8.4 - 3.87$ (E) $8.4 - 3.86$
- Which of the following is the greatest?
 (A) 0.000008×10^7 (B) $800 \div 10^3$ (C) 0.008×10^2 (D) 0.8×10^4 (E) 0.00008×10^3

14. Which of the following is true?

I. 28.2%

II. 0.2813

III. $\frac{9}{32}$

(A) $II > I > III$

(B) $II > III > I$

(C) $III > I > II$

(D) $I > II > III$

(E) $III > II > I$

15. If the object moves 8 feet every 90 seconds, how many inches will it move in 2 minutes?

(A) 124

(B) 128

(C) 130

(D) 136

(E) 144

16. Of the 360 students, $\frac{5}{12}$ had one or more dollars. How many students had less than one dollar?

(A) 150

(B) 180

(C) 210

(D) 240

(E) 270

17. If you are hit by 88 raindrops in 40 seconds, how many will hit you in two and one-half minutes?

(A) 300

(B) 310

(C) 320

(D) 330

(E) 340

18. Which of the following is the greatest?

(A) $7\frac{4}{5} + 7\frac{4}{5}$

(B) $\left(3 \times 7\frac{4}{5}\right) - 7\frac{5}{6}$

(C) $\left(4 \times 7\frac{4}{5}\right) - \left(2 \times 7\frac{5}{6}\right)$

(D) $\left(5 \times 7\frac{4}{5}\right) - \left(3 \times 7\frac{5}{6}\right)$

(E) $\left(6 \times 7\frac{4}{5}\right) - \left(4 \times 7\frac{3}{4}\right)$

19. Which of the following would produce the smallest remainder?

(A) $6,787 \div 9$

(B) $1,001 \div 3$

(C) $754 \div 4$

(D) $4,661 \div 6$

(E) $842 \div 5$

20. Which of the following is the smallest quantity?

(A) $27.46 + 27.46 + 27.46$

(B) $(27.46 \times 2) + 27.399$

(C) $(27.46 \times 4) - 27.399$

(D) $(27.46 \times 5) - (2 \times 27.399)$

(E) $(27.46 \times 6) - (3 \times 27.399)$

21. Which quantity is the smallest?

(A) $\frac{11}{40} + \frac{7}{40}$

(B) $\frac{9}{20} \times 1.001$

(C) $\frac{9}{20} \times \frac{838}{837}$

(D) $\frac{9}{20} \div \frac{7}{6}$

(E) 0.46

22. One faucet drips every 45 seconds and another faucet drips every 20 seconds. If the two faucets drip at the exact same time, how many minutes will it take for the faucets to drip at the exact same time again?

(A) 2

(B) 2.25

(C) 2.5

(D) 2.75

(E) 3

23. Which has the least GCF?

(A) 22 and 44

(B) 24 and 40

(C) 26 and 40

(D) 28 and 40

(E) 36 and 40

24. Which has the greatest LCM?

(A) 18 and 24

(B) 24 and 36

(C) 20 and 30

(D) 20 and 36

(E) 30 and 45

25. A project can be completed by 20 workers each working 4 hours per day for 9 days. If you want to complete 3 projects in 12 days, how many workers would you need if each worker works 5 hours per day?

(A) 12

(B) 18

(C) 24

(D) 30

(E) 36

MATH 5 TEST 4 ANSWERS

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|-------|-------|-------|-------|-------|
| 1. D | 2. D | 3. B | 4. A | 5. B |
| 6. E | 7. B | 8. E | 9. D | 10. C |
| 11. A | 12. C | 13. D | 14. D | 15. B |
| 16. C | 17. D | 18. E | 19. A | 20. B |
| 21. D | 22. E | 23. C | 24. D | 25. E |

1. 64,646.4646
2. one with the largest denominator
3. $4 \times 2 = 8$
4. $511 - 367 = 144$
5. 7.08746
6. $53 \times 59 = 3127$
7. $5.03 - .0003 = 5.0297$
8. $\frac{64}{1000} = \frac{8}{125}$
9. $78\frac{97}{196}$ rounds down
10. $\frac{53}{191}$
11. one with the smallest divisor
12. C has the smaller minuend than A and B. C also has a larger subtrahend than D and E. Therefore C.
13. 0.8×10^4
14. $I > II > III$
15. $\frac{120 \times 8}{90} \times 12 = 128$
16. $\frac{7}{12} \times 360 = 210$
17. $\frac{88 \times 150}{40} = 330$
18. B, C, and D are smaller than A. E is larger than A.
19. 6787 has a remainder of 1
20. B has the smallest due to $27.399 < 27.46$
21. D
22. $3 \times 3 \times 2 \times 2 \times 5 = 180$
23. 26 and 40
24. 20 and 36
25. $2160 \div 60 = 36$