MATH 6 TEST 3

Name_____ Date_____

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

1. What is the product of the digit that is in the hundreds place and the digit that is in the hundredth's place for 7,895.4371 ?

(**A**) 24 (**B**) 27 (**C**) 54 (**D**) 56 (**E**) 63

2. Which has the smallest quotient?

(**A**) $60 \div (12 \div 3)$ (**B**) $60 \div (15 \div 3)$ (**C**) $60 \div (12 \div 4)$ (**D**) $60 \div (12 \div 6)$ (**E**) $60 \div (18 \div 3)$

3. If it takes 10 scoops of sand to fill one bucket, how many scoops will it take to fill $3\frac{1}{2}$ buckets?

(**A**) 30 (**B**) 32 (**C**) 34 (**D**) 35 (**E**) 36

4. On Saturday, there were $8\frac{9}{12}$ gallons of ice cream and three days later, there were $4\frac{5}{12}$ gallons left. How much ice cream was consumed during the three days?

(**A**) $3\frac{1}{3}$ (**B**) $4\frac{1}{3}$ (**C**) $4\frac{1}{4}$ (**D**) $4\frac{5}{12}$ (**E**) $5\frac{1}{6}$

5. If you paid \$8.28 for 4 golf balls, how much was each ball?

(**A**) \$.27 (**B**) \$2.06 (**C**) \$2.07 (**D**) \$2.70 (**E**) \$33.12

6. If there are 403 jelly beans in a pack, how many jelly beans are there in 234 packs?

(**A**) 9,962 (**B**) 10,062 (**C**) 93,302 (**D**) 94,302 (**E**) 936,702

7. Which is the smallest product?

(**A**) 487×87 (**B**) 488×87 (**C**) 489×87 (**D**) $(86 \times 491) + 491$ (**E**) 87×490

8. Which amount of money is the least? You may solve by rounding.

(**A**) $\$4.01 \times 6$ (**B**) $\$8.02 \times 3$ (**C**) $\$2.99 \times 8$ (**D**) $\$6.04 \times 4$ (**E**) $\$12.03 \times 2$

9. Which is the smallest difference?

(**A**) $847 - 159\frac{1}{13}$ (**B**) $847 - 159\frac{2}{13}$ (**C**) $847 - 159\frac{3}{13}$ (**D**) $847 - 159\frac{4}{13}$ (**E**) $847 - 159\frac{4}{11}$

10. Which set of fractions decreases in order from left to right?

(**A**) $\frac{21}{39}, \frac{35}{60}, \frac{28}{44}$ (**B**) $\frac{28}{44}, \frac{35}{60}, \frac{21}{39}$ (**C**) $\frac{21}{39}, \frac{28}{44}, \frac{35}{60}$ (**D**) $\frac{28}{44}, \frac{21}{39}, \frac{35}{60}$ (**E**) $\frac{35}{60}, \frac{28}{44}, \frac{21}{39}$

11. If you ran ten yards in two seconds, how many yards could you run in 90 seconds at that speed?

(**A**) 18 (**B**) 95 (**C**) 360 (**D**) 450 (**E**) 480

12. If the perimeter of a square box is 2 yards, what is the width of the box in *inches*?

(**A**) 0.5 (**B**) 6 (**C**) 9 (**D**) 12 (**E**) 18

13. Which is the smallest difference?

(**A**) $\$8.12 - (\$3.54 + \$2.89)$ (**B**) $\$8.13 - (\$3.54 + \$2.89)$ (**C**) $\$8.14 - (\$3.54 + \$2.89)$

(**D**) $\$8.12 - (\$3.53 + \$2.89)$ (**E**) $\$8.12 - (\$3.52 + \$2.89)$

14. Which statement is false?

(**A**) $6.04 > 6.039$ (**B**) $11.12 < 11.2$ (**C**) $18.8 < 18.79$ (**D**) $19.523 > 19.5222$ (**E**) $255.55 > 255.421$

15. What is the difference between eleven and three hundredths, and nine and five thousandths?

(**A**) 1.025 (**B**) 1.035 (**C**) 2.0025 (**D**) 2.025 (**E**) 2.035

16. A class contains 10 boys and 12 girls. If $\frac{1}{5}$ of the boys wore glasses and $\frac{1}{6}$ of the girls wore glasses, what fraction of the students in the class wore glasses?

(**A**) $\frac{1}{11}$ (**B**) $\frac{2}{11}$ (**C**) $\frac{1}{30}$ (**D**) $\frac{11}{30}$ (**E**) $\frac{19}{30}$

17. Eight-ninths of the tennis balls that were made could be used. If 954 balls were made, how many of them could *not* be used?

(**A**) 106 (**B**) 108 (**C**) 144 (**D**) 810 (**E**) 848

18. Which is the smallest sum?

(**A**) $8\frac{1}{3}+\left(4\frac{1}{2}-2\frac{2}{3}\right)$ (**B**) $8\frac{1}{4}+\left(4\frac{1}{2}-2\frac{2}{3}\right)$ (**C**) $8\frac{1}{5}+\left(4\frac{1}{2}-2\frac{2}{3}\right)$ (**D**) $8\frac{1}{5}+\left(4\frac{1}{2}-2\frac{1}{3}\right)$ (**E**) $8\frac{1}{5}+\left(4\frac{3}{4}-2\frac{2}{3}\right)$

19. Which number is divisible by nine?

(**A**) 5,838 (**B**) 5,839 (**C**) 5,840 (**D**) 5,841 (**E**) 5,842

20. Which number is greater than thirty-one and five thousandths?

(**A**) 31.005 (**B**) 31.0006 (**C**) 31.004789 (**D**) 31.0004 (**E**) 31.02

21. Adam is 3 years older than Ashley, and Michelle is 8 years older than Ashley. How many years older is Michelle than Adam?

(**A**) 5 (**B**) 6 (**C**) 7 (**D**) 11 (**E**) 12

22. If \$32.80 is evenly distributed among 16 people, how much money would each person get?

(**A**) \$2.03 (**B**) \$2.04 (**C**) \$2.05 (**D**) \$2.10 (**E**) \$2.50

23. If the temperature in Denver is 55.87° and the temperature in Miami is 91.1°, how many degrees hotter is it in Miami than in Denver?

(**A**) 35.23 (**B**) 35.33 (**C**) 35.37 (**D**) 36.77 (**E**) 45.23

24. What is 80% of 200?

(**A**) 16 (**B**) 140 (**C**) 160 (**D**) 180 (**E**) 250

25. What is the least common denominator for the fractions $\frac{11}{15}, \frac{14}{30}, \frac{1}{8}$?

(**A**) 60 (**B**) 120 (**C**) 150 (**D**) 180 (**E**) 240

MATH 6 TEST 3 ANSWERS

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

1. $8 \times 3 = 24$
2. Since the dividends are the same, the smallest quotient will have the largest divisor, which will be $18 \div 3$.
3. $3 \times 10 + \frac{1}{2} \times 10 = 30 + 5 = 35$
4. $8\frac{9}{12} - 4\frac{5}{12} = 4\frac{4}{12} = 4\frac{1}{3}$
5. $8.28 \div 4 = 2.07$
6. $403 \times 234 = 94{,}302$
7. Choice D simplifies to 87×491. The smallest product will be 487×87
8. Solve by rounding. Choices A, B, D, and E must be rounded down to obtain 24 and C must be rounded up. Therefore C is the least.
9. The minuends are the same. Therefore the smallest quantity will have the largest subtrahend which will be $159\frac{4}{11}$.
10. $\frac{28}{44}, \frac{35}{60}, \frac{21}{39}$ simplifies to $\frac{7}{11}, \frac{7}{12}, \frac{7}{13}$, which is decreasing from left to right.
11. 10 yards in 2 seconds equals 5 yards every second. $90 \times 5 = 450$
12. $72 \div 4 = 18$
13. Choices A, B, and C will have the same subtrahend. Therefore the smallest difference will have the smallest minuend, which eliminates B and C. Choices A, D, and E have the same minuend. Therefore the smallest difference will have the largest subtrahend which will be A.
14. $18.8 < 18.79$
15. $11.03 - 9.005 = 2.025$
16. $\left(\frac{1}{5} \times 10\right) + \left(\frac{1}{6} \times 12\right) = 2 + 2 = 4$ and $\frac{4}{22} = \frac{2}{11}$.
17. $954 \times \frac{1}{9} = 106$
18. The second addend of A, B, and C are the same. Therefore the smallest sum will have the smallest first addend, which eliminates A and B. Choices C, D, and E have the same first addend. Therefore the smallest sum will have the smallest second addend which eliminates D and E.
19. $5838 \div 9$ has a remainder of 6. Therefore 5841 must be divisible by 9.
20. 31.02
21. $8 - 3 = 5$
22. $32.80 \div 16 = 2.05$
23. $91.1 - 55.87 = 35.23$
24. $200 \times 0.8 = 160$
25. $15 = 3 \times 5$; $30 = 3 \times 2 \times 5$; $8 = 2 \times 2 \times 2$ Therefore the LCD = $3 \times 5 \times 2 \times 2 \times 2 = 120$.