

## MATH 4 TEST 2

Name \_\_\_\_\_ Date \_\_\_\_\_

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

1. How many more weeks are there in 28 days than 14 days?  
(A) 1                      (B) 2                      (C) 3                      (D) 4                      (E) 14
2. How much smaller is  $13 \times 2$  than  $13 \times 3$ ?  
(A) 1                      (B) 2                      (C) 3                      (D) 10                      (E) 13
3. You have 266 coins in your piggy bank made up of quarters, nickels, and dimes. If there are 48 quarters and 59 nickels, how many dimes are there?  
(A) 59                      (B) 69                      (C) 149                      (D) 159                      (E) 169
4. If it is 1:30 PM, what time was it 1 hour and 40 minutes ago?  
(A) 11:40                      (B) 11:50                      (C) 12:40                      (D) 12:50                      (E) 3:10
5. Your 3 library books are each overdue 7 days. If you have to pay a fine of 4 cents a day for each book, how much money do you owe?  
(A) 28 cents                      (B) 40 cents                      (C) 64 cents                      (D) 74 cents                      (E) 84 cents
6. For every dollar that you spend, you have to pay 5 cents tax. How many dollars would you need to spend in order to have a total tax of 20 cents?  
(A) \$4                      (B) \$5                      (C) \$6                      (D) \$15                      (E) \$25
7. If the wall has 8 bricks from top to bottom and 20 bricks from left to right, how many bricks make up the wall?  
(A) 16                      (B) 28                      (C) 160                      (D) 180                      (E) 280
8. There are three rows of cars in the parking lot with 15 cars in each row. If each car has two headlights, how many total headlights are there?  
(A) 36                      (B) 45                      (C) 47                      (D) 80                      (E) 90
9. Which statement is false?  
(A)  $7+5 < 9+4$                       (B)  $4 \times 4 > 5 \times 3$                       (C)  $26-9 < 26-8$                       (D)  $5 \times 0 < 6 \times 0$                       (E)  $9+7 > 4+11$
10. Which portion of a pie would be the smallest?  
(A) one-half                      (B) one-tenth                      (C) one-fourth                      (D) one-eighth                      (E) one-sixth
11. If you bought three 2-liter cokes that were 95 cents each and paid for them with a five dollar bill, how much money would you get back?  
(A) 215 cents                      (B) 285 cents                      (C) 315 cents                      (D) 325 cents                      (E) 385 cents
12. How much smaller is  $4+7$  than  $4 \times 7$ ?  
(A) 0                      (B) 16                      (C) 17                      (D) 18                      (E) 24
13. Which of the following numbers would be the largest?  
(A) number of hours in 1 day                      (B) number of cents in a quarter                      (C) total number in 2 dozen  
(D) number of months in two years                      (E) number of days in 4 weeks

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14. Which is an improper fraction?  
(A)  $\frac{234}{243}$  (B)  $\frac{669}{696}$  (C)  $\frac{723}{732}$  (D)  $\frac{479}{497}$  (E)  $\frac{354}{345}$
15. For 20754.9287, which digit is in the hundreds place?  
(A) 0 (B) 2 (C) 5 (D) 7 (E) 8
16. Which product is the smallest?  
(A)  $(7+9) \times 4$  (B)  $(10+6) \times 3$  (C)  $(12+4) \times 4$  (D)  $(8+8) \times 5$  (E)  $(11+5) \times 4$
17.  $6\frac{11}{12}$  is the same as which fraction ?  
(A)  $\frac{29}{12}$  (B)  $\frac{73}{12}$  (C)  $\frac{78}{12}$  (D)  $\frac{83}{12}$  (E)  $\frac{198}{12}$
18. Which 3 digit number is equivalent to 80 tens and 8 ones?  
(A) 88 (B) 808 (C) 880 (D) 888 (E) 8,008
19. If you leave your home at 9:37 AM and get back at 3:25 PM, how long were you gone?  
(A) 5 hr. 12 min. (B) 5 hr. 38 min. (C) 5 hr. 48 min. (D) 6 hr. 38 min. (E) 6 hr. 88 min.
20. If 902 people voted and 289 filled out the ballot incorrectly, how many filled out the ballot correctly?  
(A) 613 (B) 623 (C) 713 (D) 723 (E) 787
21. If you could swim the length of your pool twice in thirty seconds, how many times could you swim the length of your pool in two minutes and thirty seconds?  
(A) 5 (B) 8 (C) 9 (D) 10 (E) 20
22. If your brother raked  $\frac{2}{7}$  of the yard and you raked  $\frac{3}{7}$  of the yard, what fraction of the yard still needs to be raked?  
(A)  $\frac{1}{7}$  (B)  $\frac{2}{7}$  (C)  $\frac{5}{7}$  (D)  $\frac{5}{14}$  (E)  $\frac{9}{14}$
23. If the perimeter (the distance around) of a square is 60 inches, what is the width of the square in inches?  
(A) 12 (B) 14 (C) 15 (D) 30 (E) 56
24. If you bought 25 pieces of gum for 5 cents each and sold them for 9 cents each, what was your profit?  
(A) \$.29 (B) \$1.00 (C) \$1.15 (D) \$1.25 (E) \$2.35
25. Which is not a factor of 60?  
(A) 2 (B) 3 (C) 6 (D) 8 (E) 10

# MATH 4 TEST 2 ANSWERS

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

- $14 \div 7 = 2$
- 13
- $266 - (48 + 59) = 266 - 107 = 159$
- 11:50
- $3 \times 7 \times 4 = 21 \times 4 = 84$
- $20 \div 5 = 4$
- $8 \times 20 = 160$
- $3 \times 15 \times 2 = 45 \times 2 = 90$
- $5 \times 0 < 6 \times 0$
- one-tenth
- $500 - (95 \times 3) = 500 - 285 = 215$
- $28 - 11 = 17$
- the number of days in 4 weeks
- $\frac{354}{345}$
- 7
- The sum in each set of parentheses is the same. Therefore the smallest product will have the smallest factor which is  $(10 + 6) \times 3$ .
- $\frac{83}{12}$
- $80 \times 10 + 8 = 808$
- 5 hr. 48 min.
- $902 - 289 = 613$
- Twice in 30 seconds equals 4 times every minute.  $2\frac{1}{2} \times 4 = 10$
- $\frac{7}{7} - \left(\frac{2}{7} + \frac{3}{7}\right) = \frac{7}{7} - \frac{5}{7} = \frac{2}{7}$
- $60 \div 4 = 15$
- $25 \times 4 = \$1.00$
- 8