

MATH 4 TEST 4

Name _____ Date _____

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

1. How much greater is $184 - 87$ than $184 - 91$?
(A) 4 (B) 6 (C) 7 (D) 14 (E) 16
2. If your birthday is in 23 more weeks, how many days ago was your birthday? Assume there are exactly 52 weeks in one year.
(A) 143 (B) 161 (C) 196 (D) 203 (E) 273
3. If it is 2:05 pm, what time was it 70 minutes ago?
(A) 12:15 pm (B) 12:45 pm (C) 12:55 pm (D) 1:15 pm (E) 3:15 pm
4. A sequence is a pattern of numbers. What is the next number in the following sequence? 36, 31, 26, ____
(A) 17 (B) 18 (C) 19 (D) 20 (E) 21
5. Your class is trying to raise money by selling doughnuts. If your class can buy 5 doughnuts for \$1.00 and can sell them for 50 cents each, how much money would your class make on each doughnut sold?
(A) 30 cents (B) 35 cents (C) 40 cents (D) 45 cents (E) 70 cents
6. You brought home a book from the library that has 132 pages. If you can read 12 pages every hour, and you read for 8 hours, how many pages in the book do you still need to read?
(A) 26 (B) 36 (C) 46 (D) 56 (E) 112
7. If $\frac{4}{19}$ of the students have dogs, what fraction of the students do not have dogs?
(A) $\frac{15}{19}$ (B) $\frac{5}{19}$ (C) $\frac{14}{19}$ (D) $\frac{4}{19}$ (E) $\frac{16}{19}$
8. How much greater is 654×7 than 654×6 ?
(A) 1 (B) 2 (C) 354 (D) 653 (E) 654
9. Bill jumps 6 feet 8 inches and Jill jumps 4 feet 9 inches. How much farther did Bill jump than Jill?
(A) 1 foot 9 inches (B) 1 foot 11 inches (C) 2 feet 1 inch (D) 2 feet 9 inches (E) 2 feet 11 inches
10. The third grade students played the fourth grade students in kickball. If the third grade students won the first game 15 to 7 but lost the second game, 13 to 9, how many more runs (points) did the third grade students score than the fourth grade students over the two games?
(A) 3 (B) 4 (C) 5 (D) 6 (E) 12
11. If a pitcher of tea can fill 9 glasses and you sell each glass of tea for 60 cents, how much money would you make if you sold 3 pitchers of tea?
(A) \$1.80 (B) \$15.20 (C) \$16.20 (D) \$16.80 (E) \$18.90
12. If 7 bags of fertilizer covers 2 acres of land, how many bags would be needed to cover 6 acres?
(A) 10 (B) 12 (C) 14 (D) 21 (E) 42
13. When 47 is divided by 7, what is the remainder?
(A) 2 (B) 3 (C) 4 (D) 5 (E) 6

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14. Your car can travel 10 miles for every gallon of gas that it uses. If your gas tank is full when you leave your house to go to your grandmother's house, and your father puts in 8 gallons of gas when he gets back to your house, how far is it from your house to your grandmother's house?

- (A) 18 miles (B) 40 miles (C) 50 miles (D) 60 miles (E) 80 miles

15. If the average rainfall is 3 inches every 4 months, how much will it rain in a four year period?

- (A) 12 inches (B) 16 inches (C) 24 inches (D) 36 inches (E) 48 inches

16. Which of the following is true if $<$ means "is less than" and $>$ means "is greater than"?

- (A) $24 - 9 < 6 + 8$ (B) $15 + 12 < 32 - 5$ (C) $8 \times 6 > 7 \times 7$ (D) $56 \div 7 > 48 \div 4$ (E) $8 \times 8 > 9 \times 7$

17. Which of the following has the smallest *subtrahend*?

- (A) $678\frac{451}{562} - 476\frac{349}{749}$ (B) $678\frac{451}{562} - 476\frac{380}{749}$ (C) $678\frac{451}{562} - 476\frac{366}{749}$
 (D) $678\frac{451}{562} - 476\frac{374}{749}$ (E) $678\frac{451}{562} - 476\frac{399}{749}$

18. Which of the following has the smallest value?

- (A) $\frac{426}{34}$ (B) $\frac{426}{35}$ (C) $426 \div 36$ (D) $427 \div 36$ (E) $36\overline{)428}$

MOTEL RATES

DAILY RATE	\$50 EVERY DAY
WEEKLY RATE	\$280 EVERY WEEK
MONTHLY RATE	\$1,000 EVERY MONTH

19. If you stayed in a motel for 7 days and paid the daily rate, how much would you have saved if you paid the weekly rate instead?

- (A) \$60 (B) \$70 (C) \$170 (D) \$230 (E) \$630

20. Fred stayed in the motel for 10 days. If Fred paid the weekly rate for the first 7 days and the daily rate for the remaining days, how much did Fred spend total?

- (A) \$320 (B) \$330 (C) \$420 (D) \$430 (E) \$2,110

21. If David spent four weeks in the motel and paid the weekly rate, how much could he have saved if he had paid the monthly rate instead?

- (A) \$80 (B) \$90 (C) \$100 (D) \$110 (E) \$120

22. After rounding each of the following to the nearest whole number, which of the following will be the least?

- (A) $476\frac{41}{80}$ (B) $476\frac{33}{65}$ (C) $476\frac{17}{35}$ (D) $476\frac{31}{60}$ (E) $476\frac{117}{200}$

23. If Bob can stuff 90 envelopes every half hour and Bill can stuff 2 envelopes every minute, how much longer will it take Bill to stuff 180 envelopes than Bob?

- (A) 20 minutes (B) 30 minutes (C) 40 minutes (D) 45 minutes (E) 60 minutes

24. For your birthday party, you want to order a sandwich that is several feet long that can feed 24 people. If each person eats 6 inches of the sandwich, how long does the sandwich need to be?

- (A) 4 feet (B) 6 feet (C) 8 feet (D) 9 feet (E) 12 feet

25. Which of the following will produce the largest remainder?

- (A) $17,753,152 \div 2$ (B) $397,795 \div 5$ (C) $4013 \div 9$ (D) $4014 \div 9$ (E) $4015 \div 9$

MATH 4 TEST 4 ANSWERS

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

1. $91 - 87 = 4$
2. $29 \times 7 = 203$
3. 12:55
4. $26 - 5 = 21$
5. $50 - (100 \div 5) = 50 - 20 = 30$
6. $132 - (12 \times 8) = 132 - 96 = 36$
7. $\frac{15}{19}$
8. 654
9. $6'8'' - 4'9'' = 5'20'' - 4'9'' = 1'11''$
10. $(15 - 7) - (13 - 9) = 8 - 4 = 4$
11. $(9 \times 60) \times 3 = 540 \times 3 = 1620 = \16.20
12. $7 \times (6 \div 2) = 7 \times 3 = 21$
13. $47 - 42 = 5$
14. $(8 \times 10) \div 2 = 40$
15. 3 inches every 4 months equal 9 inches per year. $9 \times 4 = 36$
16. $8 \times 8 > 9 \times 7$
17. $476\frac{349}{749}$ is the smallest subtrahend
18. Choice C is smaller than A and B because the dividend for C is larger. Choice C is smaller than D and E because the divisor is smaller.
19. $(7 \times 50) - 280 = 350 - 280 = 70$
20. $280 + (3 \times 50) = 280 + 150 = 430$
21. $(280 \times 4) - 1000 = 1120 - 1000 = 120$
22. For $476\frac{17}{35}$, the numerator is less than half of the denominator and will be the smallest.
23. If Bob can do 90 envelopes in 30 minutes, then he can do 180 envelopes in 60 minutes. Bill can do 180 envelopes in $180 \div 2 = 90$ minutes. Therefore it would take Bill 30 minutes longer.
24. If one person eats 6 inches, then two people will eat 1 foot. Therefore $24 \div 2 = 12$ feet.
25. Choices A and B are obviously 0 which eliminates them. $4013 \div 9$ has a remainder of 8. Therefore 4014 will have a remainder of 0 and 4015 will have a remainder of 1.