

MATH 6 TEST 1

Name _____

Date _____

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

1. For 23,754, what place value is the 3 in?
(A) thousands (B) hundreds (C) hundred thousands (D) ten thousands (E) tens
2. Which is an odd number?
(A) 3,196 (B) 5,992 (C) 7,350 (D) 8,625 (E) 9,714
3. For the following fractions, which has the largest numerator? $\frac{5}{7}, \frac{6}{5}, \frac{4}{9}, \frac{7}{6}, \frac{3}{8}$
(A) $\frac{5}{7}$ (B) $\frac{6}{5}$ (C) $\frac{4}{9}$ (D) $\frac{7}{6}$ (E) $\frac{3}{8}$
4. If it is 6:45, what time was it 52 hours ago?
(A) 1:45 (B) 2:45 (C) 3:45 (D) 10:45 (E) 11:45
5. For 35,673,482,159, what is the product of the digits in the hundreds place and ten millions place?
(A) 3 (B) 5 (C) 7 (D) 15 (E) 35
6. Which number is divisible by seven?
(A) 3,665 (B) 3,666 (C) 3,667 (D) 3,668 (E) 3,669
7. What is the next number in the following sequence: 51, 42, 33, 24, ____?
(A) 13 (B) 14 (C) 15 (D) 16 (E) 17
8. Four hundred six thousand eighty-four can be expressed which of the following ways?
(A) 406,084 (B) 460,984 (C) 406,840 (D) 460,840 (E) 46,084
9. Which has the smallest sum?
(A) $6,758 + 7,989 + 8,887$ (B) $6,758 + 7,989 + 8,886$ (C) $6,757 + 7,989 + 8,886$
(D) $6,757 + 7,988 + 8,886$ (E) $6,758 + 7,988 + 8,886$
10. What is the smallest number that can be written with the following digits: 7, 5, 8, 1, 3.
(A) 13,578 (B) 13,587 (C) 15,378 (D) 15,387 (E) 15,783
11. Four teachers are eating in the lunchroom with their students and each teacher has 25 students. How many people are in the lunchroom?
(A) 29 (B) 84 (C) 100 (D) 104 (E) 108
12. How much smaller is one thousand ten than ten thousand one?
(A) 8,091 (B) 8,991 (C) 9,011 (D) 9,091 (E) 9,991
13. A lawn mower can travel at 4.78 miles per hour in third gear and 6.1 miles per hour in fourth gear. How much faster is the lawn mower in fourth gear than third?
(A) 1.32 mph (B) 1.42 mph (C) 1.48 mph (D) 1.68 mph (E) 2.32 mph

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14. For the first 15 windows you wash, you get paid 60 cents each. For each additional window that you wash, you get paid 30 cents each. How much money would you get for washing 23 windows?
 (A) \$6.90 (B) \$11.10 (C) \$11.40 (D) \$11.70 (E) \$13.80
15. David can chop down two trees in twenty minutes. How many trees could he chop down in 6 hours?
 (A) 9 (B) 18 (C) 24 (D) 30 (E) 36
16. Which has the smallest remainder?
 (A) $839 \div 9$ (B) $838 \div 9$ (C) $836 \div 9$ (D) $835 \div 9$ (E) $834 \div 9$
17. It takes 8 days for 15 students to sell 960 pizzas. How many pizzas does each student sell in one day on average?
 (A) 7 (B) 7.5 (C) 8 (D) 8.5 (E) 9
18. An average football game requires 3 hours and 21 minutes to complete. If the game started 69 minutes ago, how many hours are left?
 (A) $2\frac{13}{15}$ (B) $2\frac{1}{4}$ (C) $2\frac{1}{3}$ (D) $2\frac{1}{6}$ (E) $2\frac{1}{5}$
19. What is the difference in length between a stick that is 2 yards 4 inches long and a stick that is 74 inches long?
 (A) 2 inches (B) 4 inches (C) 8 inches (D) 46 inches (E) 130 inches
20. Round 17532.984364 to the nearest ten thousandths place.
 (A) 17,000 (B) 18,000 (C) 17,532.98436 (D) 17,532.9844 (E) 17,532.9843
21. Which of the following has the smallest divisor?
 (A) $5,225 \div 25$ (B) $1,650 \div 50$ (C) $7,700 \div 35$ (D) $1,680 \div 40$ (E) $2,460 \div 60$
22. Which statement has the smallest difference?
 (A) $47,698 - (7,842 + 9,659)$ (B) $47,697 - (7,842 + 9,659)$ (C) $47,696 - (7,842 + 9,659)$
 (D) $47,695 - (7,842 + 9,659)$ (E) $47,695 - (7,843 + 9,659)$
23. If you are trying to raise \$100 for your school and you raised \$36.47 on Monday and \$48.89 on Tuesday, how much more do you need to raise?
 (A) \$14.36 (B) \$14.64 (C) \$15.36 (D) \$15.64 (E) \$85.36
24. In a line of cars, your car is 23rd from the front and 117th from the back. How many cars are in the line?
 (A) 130 (B) 139 (C) 140 (D) 141 (E) 142
25. Which has the smallest product? You may use rounding.
 (A) $201 \times 8,001$ (B) $21 \times 80,010$ (C) $2,001 \times 801$ (D) $401 \times 4,002$ (E) $199 \times 7,999$

MATH 6 TEST 1 ANSWERS

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

- thousands
- 8625
- $\frac{7}{6}$ has the largest numerator
- $6:45 - 48 \text{ hours} = 6:45$ and $6:45 - 4 = 2:45$.
- $1 \times 7 = 7$
- $3665 \div 7$ has a remainder of 4. Therefore 3668 will have a remainder of zero.
- $24 - 9 = 15$
- 406,084
- No addition is necessary. Choices A and B only differ by their third addend. Choice A is eliminated since its addend is larger. Choices B and C only differ by their first addend. Choice B is eliminated since its addend is larger. Choices C and D only differ by their second addend. Choice C is eliminated since its addend is larger. Choices D and E only differ by their first addend. Choice E is eliminated since its addend is larger.
- 13,578
- $4 + (4 \times 25) = 4 + 100 = 104$
- $10,001 - 1,010 = 8,991$
- $6.1 - 4.78 = 1.32$
- $(15 \times 60) + (8 \times 30) = 900 + 240 = 1140 = \11.40
- 6 trees per hour \times 6 hours = 36 trees.
- $839 \div 9$ has a remainder of 2. Therefore $838 \div 9$ will have a remainder of 1 which will be the smallest.
- $960 \div 8 = 120$ total pizzas sold per day. $120 \div 15 = 8$ pizzas per student.
- $3 \text{ hr. } 21 \text{ min.} - 69 \text{ min.} = 2 \text{ hr. } 81 \text{ min.} - 69 \text{ min.} = 2 \text{ hr. } 12 \text{ min.} = 2\frac{12}{60} = 2\frac{1}{5} \text{ hours}$
- $(2 \times 36) + 4 - 74 = 76 - 74 = 2$
- 17,532.9844
- 25 is the smallest divisor
- No addition and subtraction is necessary. A, B, C, and D have the same subtrahend. Therefore the smallest difference will have the smallest minuend which eliminates A, B, and C. When comparing D and E, the minuends are the same. Therefore the smallest difference will have the largest subtrahend. Since the subtrahend of E is larger by one, E will have the smallest difference.
- $100 - (36.47 + 48.89) = 100 - (85.36) = \14.64
- $23 + 117 = 140$. However, your spot was counted twice (the 23rd spot and the 117th spot is the same spot). Therefore $140 - 1 = 139$.
- No detailed multiplication is necessary. A, B, C and D rounded down will equal 1,600,000. Choice E rounded up will equal 1,600,000. Therefore E has the smallest product.