MATH 6 TEST 4

Name		Date		
Directions: Complete	as many problems	as you can in the 30 i	minutes allotted to y	ou. No calculators!
1. Round 449.4999 to the (A) 400	e nearest whole numbe (B) 449	r. (C) 449.4	(D) 449.5	(E) 450
2. Which of the followin	g has the smallest valu	e?		
(A) $\frac{426}{34}$	(B) $\frac{426}{35}$	(C) 426÷36	(D) 427 ÷ 36	(E) $36)428$
3. Express 0.24 as a redu	iced fraction.			
(A) $\frac{4}{25}$	(B) $\frac{6}{25}$	(C) $\frac{8}{25}$	(D) $\frac{12}{25}$	(E) $\frac{13}{25}$
4. After rounding each o				
(A) $476\frac{41}{80}$	(B) $476\frac{33}{65}$	(C) $476\frac{17}{35}$	(D) $476\frac{31}{60}$	(E) $476\frac{117}{200}$
5. What is the sum of the (A) 100	e two smallest prime nu (B) 104	umbers greater than 48? (C) 108	(D) 110	(E) 112
6. Multiply 10.1×12.8 at (A) 14.1	nd round to the nearest (B) 129.2	tenths place. (C) 129.3	(D) 140.8	(E) 141.0
7. What is the difference (A) 22.00076	(B) 22.00084	and eight thousandths, a (C) 22.0074	nd two and four ten-the (D) 22.0076	ousandths? (E) 22.0084
8. Which is true?				
(A) $\frac{4}{5} < 0.785$	(B) $79\% > \frac{4}{5}$	(C) 79% < 0.785	(D) 0.8 < 79%	(E) $0.8 > \frac{79}{100}$
9. Which would produce	the largest quotient?			
$(\mathbf{A}) \ \frac{3}{4} \div \frac{1}{6}$	$(B) \frac{3}{4} \div \frac{1}{4}$	$(\mathbf{C}) \ \frac{3}{4} \div \frac{1}{3}$	$(\mathbf{D}) \ \frac{3}{4} \div \frac{1}{5}$	$(\mathbf{E}) \ \frac{3}{4} \div \frac{1}{2}$
10. If Bob can stuff 90 e		ur and Bill can stuff 2 e	nvelopes every minute,	how much longer will
it take Bill to stuff 180 er (A) 20 minutes	(B) 30 minutes	(C) 40 minutes	(D) 45 minutes	(E) 60 minutes
11. For your birthday parperson eats 6 inches of th	• •		_	d 24 people. If each
(A) 4 feet	(B) 6 feet	(C) 8 feet	(D) 9 feet	(E) 12 feet
12. Which result is the la (A) 751.3 – 79.899	argest difference? (B) 751.11 – 79.899	(C) 751.123 – 79.899	9 (D) 751.3 – 79.99	(E) 751.3-79.999
13. If you need to fertiliz	_ •	_	oag of fertilizer covers	5 square yards, how
many bags of fertilizer w (A) 70	ould you need to <i>totall</i> (B) 71	y finish the grass? (C) 72	(D) 73	(E) 74

14. Which of the followi (A) 17,753,152 ÷ 2	ing will produce the lar (\mathbf{B}) 397,795 ÷ 5	_	(D) 4014 ÷ 9	(E) 4015÷9
15. Which is the largest (A) 3.01×10	number? (B) 0.301×100	(C) 0.00301×10,000	(D) 0.301×1,000	(E) 30,100 ÷ 1,000
16. If a pencil costs 85 c(A) 66 cents	tents and you pay eight- (B) 68 cents	tenths of this amount, ho (C) 70 cents	w much did you pay? (D) 72 cents	(E) 74 cents
17. Which is the reciproo	cal of $1\frac{3}{4}$?			
$(\mathbf{A}) \ \frac{4}{7}$	$(B) \frac{4}{8}$	(C) $\frac{4}{12}$	(D) $\frac{4}{15}$	$(\mathbf{E}) \ \frac{7}{4}$
18. Which is true?				
$(\mathbf{A}) \ 6 \times 8 > 7 \times 7$	$(\mathbf{B}) 9 \times 7 > 8 \times 8$	(C) $\frac{1}{4} + \frac{1}{4} > \frac{1}{4} \times \frac{1}{4}$	(D) $\frac{1}{4}$ of $28 < \frac{1}{5}$ of 30	$\mathbf{(E)} \ \ \frac{1}{2} + \frac{1}{2} < \frac{6}{7} \times \frac{6}{7}$
19. Which quantity is the				
(A) 32%	(B) $0.319 \times \frac{7}{8}$	(C) 0.319	(D) $\frac{1}{6} + \frac{1}{6}$	(E) $\frac{8}{24}$
20. Which is the largest (A) $297.8 + 297.8 + 29$ (D) $(6 \times 297.8) - (3 \times 3)$		× 297.8) – 297.7 × 297.8) + 297.7	(C) $(5 \times 297.8) - (2 \times 297.8)$	297.7)
21. Which has the smalle (A) 12 and 16	est GCF?	(C) 20 and 30	(D) 24 and 36	(E) 36 and 45
*		2 - (16.777 + 4.34) 2 - (16.7666 + 4.33)	(C) 254.2 – (16.7666 -	+ 4.33)
`	,	,		
23. Which has the smalle (A) 4 and 5	(B) 5 and 6	(C) 6 and 8	(D) 6 and 9	(E) 6 and 10
24. A clock is malfunction correct time at 8:00 AM, (A) 1:30 pm	_			
25. Which of the followi	ing has the least value?			
(A) $6\frac{1}{2} + 6\frac{1}{2} + 6\frac{1}{2} + 6$	$6\frac{1}{2}$ (B) 4:	\times 6 $\frac{2}{3}$	(C) $\left(2 \times 6\frac{2}{3}\right) + \left(2 \times 6\right)$	$\left(\frac{2}{3}\right)$
(D) $\left(3 \times 6\frac{1}{2}\right) + 6\frac{3}{5}$	(\mathbf{E}) (5)	$6 \times 6\frac{1}{2} - 6\frac{2}{3}$	-/ \	

MATH 6 TEST 4 ANSWERS

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

1. 449

2. 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

3.
$$0.24 = \frac{24}{100} = \frac{6}{25}$$

4. For $476\frac{17}{35}$, the numerator is less than half of the denominator and will be the smallest.

5.
$$53+59=112$$

6.
$$10.1 \times 12.8 = 129.28 = 129.3$$

7.
$$24.008 - 2.0004 = 22.0076$$

8.
$$0.8 > \frac{79}{100}$$

9. The dividends are all the same. Therefore the smallest divisor will produce the largest quotient which will be $\frac{1}{6}$.

10. 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.

11. If one person eats 6 inches, then two people will eat 1 foot. Therefore $24 \div 2 = 12$ feet.

12. Choice A, B, and C have the same subtrahend. The largest difference will have the largest minuend which eliminates B and C. Choices A, D, and E have the same minuend. Therefore the smallest subtrahend will produce the largest difference which will be A.

13. $360 \div 5 = 72$ bags. Therefore 360.06 will require another bag, or 73.

14. 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.

15. Choice D = 301 and will be the largest.

16. $85 \times 0.8 = 68$

17. The reciprocal of $1\frac{3}{4}$ or $\frac{7}{4}$ is $\frac{4}{7}$.

18.
$$\frac{1}{4} + \frac{1}{4} > \frac{1}{4} \times \frac{1}{4} \to \frac{2}{4} > \frac{1}{16} \to \frac{8}{16} > \frac{1}{16}$$

19. Choices D and E simplify to one-third which are greater than 33% and are eliminated. Choice A = 0.32 which is larger than C. Choice B is a fraction of C. Therefore B.

20. Choice $A = 3 \times 297.8$. Choice B increased by 297.8 over A but also decreased by 297.7. Therefore B is larger. Choices C and D follow the same pattern. Therefore B and C are eliminated. Choice E follows the reverse pattern. It has one fewer addend of 297.8 but an additional addend of 297.7 for a net decrease. Therefore D is the largest.

21. 15 and 24 have a GCF of 3.

22. Choices A, B, C, and D have the same minuend. Therefore the smallest subtrahend will produce the greatest difference. Therefore A, B, and D are eliminated. The subtrahends of C and E are the same. Therefore the greatest difference will have the larger minuend which is C.

23. The smallest number that 6 and 9 go into evenly is 18 which will be the smallest.

24.
$$8:00 + \left(\frac{3}{4} \times 8\right) = 8:00 + 6$$
 hours equals 2:00

25. Choice A = $4 \times 6\frac{1}{2}$ which eliminates B. Choice C can also be written as B and will be eliminated. Choice D can be written

as 4 addends. The fourth addend of D will be larger than the fourth addend of A, thus eliminating D. Choice E = choice A + choice B

$$+6\frac{1}{2}-6\frac{2}{3}$$
. Since $6\frac{2}{3}>6\frac{1}{2}$, choice E will be the smallest.