## MATH 7 TEST 1

	Name Date Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators!					
1.	Round $6.\overline{646}$ to the neares (A) $6.6466$	est hundred-thousandths p ( <b>B</b> ) 6.64665	lace. ( <b>C</b> ) 6.64646	<b>(D)</b> 6.646464	(E) 6.646647	
2.	Which has the greatest sur ( <b>A</b> ) 4,789 + 6,594 + 5,8 ( <b>D</b> ) 4,787 + 6,599 + 5,8	(B) 4,78	35+6,588+5,882 35+6,598+5,873	(C) 4,789+6,595+5,8	373	
3.	Which fraction is not equi	ivalent to $\frac{5}{8}$ ?				
	(A) $\frac{35}{56}$	<b>(B)</b> $\frac{40}{64}$	(C) $\frac{45}{72}$	<b>(D)</b> $\frac{50}{80}$	<b>(E)</b> $\frac{60}{98}$	
4.	Which statement is the gra (A) $15,987 - (8,763 + 5,63 + 5,63 + 6,63 +$	,899) ( <b>B</b> ) 15,98°	7 - (8,763 + 5,900) 7 - (8,763 + 5,903)	(C) $15,987 - (8,763 + 5)$	5,901)	
5.	What is the product of the (A) 1,482	,	,	<b>(D)</b> 1,680	<b>(E)</b> 1,763	
6.	Which of the following is  (A) $24\frac{3}{4} \div \left(5\frac{7}{13} \div 2\frac{6}{19}\right)$ (D) $24\frac{3}{4} \div \left(5\frac{5}{13} \div 2\frac{5}{19}\right)$	<b>(B)</b> $24\frac{3}{4} \div$	(13 1))	(C) $24\frac{3}{4} \div \left(5\frac{5}{13} \div 2\frac{6}{19}\right)$		
7.	How many more quarts ar (A) 8	re in 20 gallons than 24 pin (B) 24	nts? (C) 32	<b>(D)</b> 68	<b>(E)</b> 72	
	How much greater is $(4 \times$			( 10) ( 100		
tha	$\tan\left(7\times1,000\right) + \left(0\times100\right)$	$+(0\times10)+(9\times1)+(6\times1)$	$\left(\frac{1}{10}\right) + \left(0 \times \frac{1}{100}\right) + \left(8 \times \frac{1}{100}\right)$	$\left(\frac{1}{1.000}\right)$ ?		
	( <b>A</b> ) 33,391.412	<b>(B)</b> 33,391.428	(C) 33,392.312	<b>(D)</b> 33,401.412	<b>(E)</b> 33,401.428	
9.	Which will produce the sr $(\mathbf{A})$ 12,308 ÷ 47	mallest remainder? (B) $12,310 \div 47$	(C) 12,312÷47	<b>(D)</b> 12,314 ÷ 47	(E) 12,316÷47	
	. What is the difference be	etween three hundred two	and seventeen hundredths.	, and thirty-nine and eight	hundred fifty-eight	
the	ousandths? ( <b>A</b> ) 262.312	<b>(B)</b> 262.328	(C) 263.312	<b>(D)</b> 263.328	<b>(E)</b> 362.312	
11	. For 43,265.1234, what is ( <b>A</b> ) 6	s the product of the digit the (B) 8	nat is in the thousandths pl (C) 9	ace with the digit that is in ( <b>D</b> ) 12	the thousands place? (E) 16	
12	. Which of the following r (A) 185,328	numbers is not divisible by ( <b>B</b> ) 264,735	y 9? ( <b>C</b> ) 573,192	<b>(D)</b> 426,843	<b>(E)</b> 371,856	

13. Which of the following numbers are divisible by 4 and 6?							
(	<b>(A)</b> 6,224	<b>(B)</b> 7,436	<b>(C)</b>	9,792	<b>(D</b> )	6,004	<b>(E)</b> 4,006
14. On a map, $\frac{1}{4}$ of an inch represents 500 miles and two cities are 1400 miles apart. How far apart are the two cities on the map?							
(	A) 0.4 inches	<b>(B)</b> 0.5 inches	<b>(C)</b>	0.6 inches	<b>(D</b> )	0.7 inches	<b>(E)</b> 0.8 inches
	What is the next number <b>A</b> ) 3.78	in the following sequence ( <b>B</b> ) 3.88		8.86; 7.2; 5.54; 3.98	( <b>D</b> )	4.88	<b>(E)</b> 4.98
of 1		g such that the minute han the clock read when the a ( <b>B</b> ) 3:20 p.m.	actual		the sa		k at the correct time (E) 6:00 p.m.
	Simplify $3^3 - 2^2 + 2$ . <b>A)</b> 3	<b>(B)</b> 7	( <b>C</b> )	21	<b>(D)</b>	23	(E) 25
	Simplify $36 - 24 \div 4 \times 2$ <b>A</b> ) 7	+1. ( <b>B</b> ) 23	( <b>C</b> )	25	<b>(D)</b>	31	<b>(E)</b> 33
is 2,		d contains a circular pool width of the yard in feet.  (B) 50		3.14 for $\pi$ .	. The ( <b>D</b> )	•	covered by the pool (E) 80
	What fraction has the large $\frac{347}{711}$	gest value? (B) $\frac{347}{710}$	( <b>C</b> )	347 709	<b>(D</b> )	346 710	(E) $\frac{345}{720}$
	If 2 gallons of paint cover <b>A</b> ) 360	rs 120 square yards, then 3 ( <b>B</b> ) 380		rts of paint will cover 390	r how ( <b>D</b> )		<b>(E)</b> 405
	Eighty thousand eighty an <b>A</b> ) 80,008.000081	nd eighty-one ten-milliont ( <b>B</b> ) 80,080.0000081				following ways? 8,080.0000081	<b>(E)</b> 8,080.00000081
23. If it took you 14 hours and 54.37 minutes to complete the project and it took your brother 18 hours and 1.2 minutes to complete his, how much longer did your brother work than you?  (A) 3 hours and 6.83 minutes  (B) 3 hours and 6.97 minutes  (C) 3 hours and 7.83 minutes  (D) 3 hours and 16.83 minutes							
24. liter		quals one milliliter, then 6	5.8 de	kaliters equals how n	nany	cubic centimeters?	One dekaliter equals 10
(	<b>A</b> ) 68	<b>(B)</b> 680	<b>(C)</b>	6,800	<b>(D)</b>	68,000	<b>(E)</b> 680,000
25. If the dimensions of one room are 12ft x 12ft x 8ft, and the dimensions of a second room are 18ft x 18ft x 24ft, what is the ratio of the volume of the second room to the volume of the first room?							
	<b>A</b> ) $\frac{4}{27}$	<b>(B)</b> $\frac{27}{4}$	( <b>C</b> )		<b>(D)</b>	<u>8</u> 27	<b>(E)</b> $\frac{27}{5}$

## MATH 7 TEST 1 ANSWERS

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

## 1. 6.64665

2. When comparing choices A and D, the first addend of A is 2 larger than the first addend of D, the second is 5 less, and the third is 2 larger. Therefore choice A is eliminated. When comparing choices B and E, the second addend of E is 10 larger but the third addend is 9 smaller. Therefore B is eliminated. When comparing D and E, the first addend of D is 2 greater, the second addend is 1 greater, and the third addend is 1 smaller. Therefore E is eliminated. When comparing C and D, the first addend of C is 2 larger, the second addend is 4 smaller, and the third addend is 1 larger. Therefore D is the largest.

$$3. \quad \frac{60 \div 2}{98 \div 2} = \frac{30}{49}$$

- 4. The minuends all have the same value. The greatest difference will have the smallest subtrahend. Choice A will have the smallest subtrahend.
- 5.  $38 \times 39 = 1482$
- 6. one with the smallest denominator. Therefore C.
- 7. 80 12 = 68
- 8. 40,401.02 7,009.608 = 33,391.412
- 9.  $12,314 \div 47$  has a remainder of 0.
- 10. 302.17 39.858 = 262.312
- 11.  $3 \times 3 = 9$
- 12. E
- 13. 9,792

14. 
$$\frac{350}{500} = 0.7$$

15. 5.54 - 1.66 = 3.88

16. 
$$10:00+\left(\frac{2}{3}\times 9\right)=10:00+6=4:00 \text{ p.m.}$$

- 17. 27 4 + 2 = 25
- 18. 36 12 + 1 = 25
- 19.  $2186 + 314 = 2500 = 50 \times 50$

20. 
$$\frac{347}{709}$$

21. 
$$\frac{120 \cdot 3 \cdot 9}{8} = 405$$

- 22. 80,080.0000081
- 23. 17 hrs. 61.2 min. 14 hrs. 54.37 min. = 3 hrs. 6.83 min.
- 24.  $6.8 \cdot 10000 = 68000$

25. 
$$\frac{18 \times 18 \times 24}{12 \times 12 \times 8} = \frac{3 \times 3 \times 3}{2 \times 2} = \frac{27}{4}$$