		MATH 7 TEST 3					
Name Date Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators!							
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1. What is the decimal	equivalent to $17\frac{17}{99}$?						
(A) 17. 17	(B) 17.1896	(C) 17. 171	(D) 17.172	(E) 17.189			
2. Simplify (7×10^4) +	$\left(5\times10^2\right) + \left(4\times\frac{1}{1,000}\right).$						
(A) 7,500.0004	(B) 7,500.004	(C) 70,500.004	(D) 75,000.004	(E) 70,500.0004			
3. What is the least con	nmon denominator for the f	following fractions? $\frac{7}{18}$	$\frac{5}{16}$; $\frac{3}{20}$				
(A) 360	(B) 720	(C) 1,800	(D) 2,400	(E) 3,600			
4. Which of the following (A) 14	ing is not a factor of 210? (B) 15	(C) 35	(D) 36	(E) 42			
5. Find the perimeter.							
	16	8					
(A) 48	(B) 54	(C) 56	(D) 60	(E) 64			
	les at 20 miles per hour. To	om went the same distance	e but took 10 hours long	er. Find the difference			
between their two rates (A) 3	in miles per hour. (B) 4	(C) 8	(D) 10	(E) 12			
7. An 24-yard piece of	rope was cut into $3\frac{1}{5}$ inch	pieces. How many pieces	could be made?				
(A) 90	(B) 180	(C) 240	(D) 260	(E) 270			
8. Which of the follows (A) $6.\overline{43}$	ing numbers is the largest? (B) $6.\overline{434}$	(C) 6.4 343	(D) 6.4339	(E) 6.43439			
9. Which is the greatest	t difference?						
, -	(B) $16\frac{1}{2} - \left(7\frac{1}{3} + 2\frac{1}{5}\right)$	(C) $16\frac{1}{2} - \left(7\frac{1}{3} + 2\frac{1}{8}\right)$	(D) $16\frac{1}{2} - \left(7\frac{1}{3} + 2\frac{1}{4}\right)$	$(E) 16\frac{1}{2} - \left(7\frac{1}{3} + 2\frac{1}{7}\right)$			
10. If your average on (A) 93.5	four tests is 96, and three of (B) 94	f your test scores are 93, 99 (C) 94.5	9, and 97, what is your f (D) 95	fourth test score? (E) 95.5			
11. After rounding each (A) 82.828282	n of the following to the nea (B) 82.824999	arest thousandths place, where (C) 82.826888	hich of the following wo (D) 82.827499	ould be the largest? (E) 82.8269999			
12. What is the next nu	mber in the following sequ	hence? $756\frac{1}{8}$; $701\frac{5}{8}$; 64	$47\frac{1}{8}$;				

(A) $592\frac{5}{8}$ (B) $593\frac{5}{8}$ (C) $594\frac{5}{8}$ (D) $595\frac{5}{8}$ (E) $596\frac{5}{8}$

13. At the football game, \$76 (A) 9,256	5,378.50 was collected and (B) 9,258	each person paid \$8.25. (C) 9,260	How many people paid? (D) 9,262	(E) 9,264			
14. The number of students in a cell phone last year, how ma(A) 50		Il phone is 400% of the no (C) 600	umber that had one last ye (D) 800	ear. If 200 students had (E) 1,000			
15. A circle with a diameter (\mathbf{A}) 4π	of 24 inches has an area hat $(\mathbf{B}) \ 16\pi$	ow much larger than a circ (C) 20π	cle with a radius of 8 inche (D) 40π	es? (E) 80π			
16. Eight-ninths of the tennis (A) 106	(B) 108	(C) 144	(D) 810	(E) 848			
17. The diameter of a circle is	s $5\frac{7}{11}$ inches and the radi	tus is $2\frac{9}{11}$ inches. Find the	he value of $\frac{18}{\text{diameter} \div r}$	radius ·			
(A) 2	(B) 3	(C) 6	(D) 9	(E) 18			
18. $80\% \times 20\% \times 4\frac{7}{8} \times 100\%$ equals what percent?							
(A) 32%	(B) 39%	(C) 68%	(D) 72%	(E) 78%			
19. If 26.8 grams of saltwater (A) 19.832	contains 26% water, how (B) 7.968	many grams of salt are the (C) 7.068	nere? (D) 6.978	(E) 6.968			
20. Tammy completed the race 3.1 minutes sooner than Tara. Terry completed the race 24 seconds after Tammy. How many minutes longer did it take Tara than Terry to complete the race?							
(A) 2.5	(B) 2.6	(C) 2.7	(D) 2.8	(E) 2.9			
21. The town population is 3, before the gold rush?	,000% of what it was befo	re the gold rush. If there	are 15,000 people now, ho	ow many were there			
(A) 5	(B) 20	(C) 50	(D) 200	(E) 500			
22. The temperature in Miami is 80° F and the temperature in Atlanta is 40° F. If the temperature decreases 20% in Miami and increases 20% in Atlanta, what is the difference in temperature between the two cities?							
$(\mathbf{A}) \ 0^{\circ} \mathbf{F}$	(B) 12° F	(C) 8°F	(D) $16^{\circ} F$	$(\mathbf{E}) \ 6^{\circ} \mathbf{F}$			
23. If you change your television channel 180 times in $15\frac{5}{6}$ minutes, how many times will you change it in $1\frac{7}{12}$ minutes at that							
rate? (A) 16	(B) 18	(C) 20	(D) 22	(E) 24			
24. Four pizzas cost \$20 total (A) \$90	and each pizza feeds 7 pe (B) \$95	eople. How much would i	it cost to feed 133 people? (D) \$105	(E) \$110			
25. If you borrowed \$1,000 a (A) 6	t a 4.5% annual interest ra (B) 9	te and pay \$90 in interest (C) 12	, how many months did yo (D) 18	ou borrow the money? (E) 24			

MATH 7 TEST 3 ANSWERS

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

- 1. $17.\overline{17}$
- 2. 70,500.004
- 3. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 720$
- 4. 36
- 5. 48 + 12 = 60
- 6. 20 12 = 8

7.
$$24 \cdot 36 \cdot \frac{5}{16} = 270$$

- 8. E
- 9. The minuends are all the same. Therefore the smallest subtrahend will produce the greatest difference. The first addend of each of the subtrahends are all the same and can be ignored. The subtrahend of choice C has the smallest second addend, $2\frac{1}{8}$, and will therefore produce the greatest difference.
- 10. 96 1 = 95
- 11. A
- 12. $647\frac{1}{8} 54\frac{4}{8} = 592\frac{5}{8}$
- 13. $76,378.50 \div 8.25 = 9258$
- 14. $4 \cdot 200 = 800$
- 15. $144\pi 64\pi = 80\pi$

16.
$$954 \times \frac{1}{9} = 106$$

- 17. $18 \div 2 = 9$
- 18. 78%
- 19. $26.8 \cdot 0.74 = 19.832$
- 20. 3.1 0.4 = 2.7
- 21. $1500 \div 3 = 500$
- 22. 64 48 = 16
- 23. $180 \cdot \frac{19}{12} \cdot \frac{6}{95} = 18$
- 24. $19 \times 5 = 95$
- 25. 2 years or 24 months