Cedar Ridge Middle School Mathematics Tournament

February 10, 2001

Sixth Grade Exam

Directions:

- NO books, notes, calculators, or other aids are allowed. Scratch paper will be provided by the exam supervisor.
- "Bubble" each answer neatly on the <u>Scantron Form</u> using a #2 pencil.
- If none of the choices listed (A, B, C, D) are correct, choose E ("none of these")
- The time limit for the exam will be one hour. You are expected to remain in the room the entire time.
- When time is called, give your <u>Scantron Form</u> to the supervisor before leaving.
- · You may keep your copy of the exam.

2001 Cedar Ridge Middle School 6th Grade Test

) ¹ .	Find the difference between the Greatest Common Factor (GCF) and the Least Common Multiple (LCM) of 16 and 64.							
	a. 64	b. 94	c. 56	d. 48	e. none of these			
2	If $A = $ the num find $AB + B^2 +$	nber of sides of a h	exagon, and B = the	e number of sides of	a decagon,			
	a. 166	b. 155	c. 86	d. 175	e. none of these			
3	√100 - √16 + √64							
	a. 14	b. 10	c. 25	d. 29	e. none of these			
4	. Solve for x. a. 12	2x - 8 = 20 b. 14	c. 6	d. 10	e. none of these			
5	The length of	a rectangle is twice	its width The one	a is 32 Find the ne	nimeter of the			
5	rectangle.	a rectangle is twice	iis widin. The dre	u is 52. I mu me pe	interer of the			
	a. 36	b. 24	c. 12	d. 32	e. none of these			
6	7 + 2.7 + 7 +	.27						
di.	a. 6.8	b. 16.97	c. 4.37	d. 10.4	e. none of these			
7	'. What is the measure of the supplement to a 60° angle?							
	a. 30°	b.120°	c. 40 ⁰	d. 60°	e. none of these			
8	Find the probability of rolling a composite number when a fair six sided die is rolled once.							
	a. 1/3	b. 2/3	c. 1/6	d. 1/2	e. none of these			
9		a large pizza and Al ave 12 inch radii. Ho						
	a. 81π in ²	b. 3π in ²	c. $6\pi \text{ in}^2$	d. 181π in ²	e. none of these			
10	O. 3a = 120 and	8b = 4 Find ab.						
	a. 40	Ь. 5120	c. 80	d. 20	e. none of these			
11. By how much does $2^2 + 3^2 + 4^2$ exceed the product of 2, 3, and 4.								
	a. 5	b. 6	c. 9	d. 19	e. none of these			
12. Ally really wants an A in math. If her test scores were 92, 87, 100, 95, and 86, w								
she make on her sixth test for her average to be 93?								

c. 93

b. 92

a. 98

e. none of these

d. 100

13.	Find the 10th a. 13	term in the sequence	ce. 1, 1, 2, 3, 5, 8, c. 16	d. 30	e. none of these				
14.	$14 \times \frac{1}{2} + 40 = 0$		c. 17	d. 47	e. none of these				
15.	15. Sally's mom bought her a sweater. The original price of the sweater was \$34.00. It was on sale for 20% off the original price. Sally's mom had a coupon for an additional 15% off the sale item. What was the final price of the sweater if sales tax was 8%? a. \$24.97 b. \$20.33 c. \$17.68 d. \$24.82 e. none of these								
16. John did three times as many push-ups on Friday as Monday. On Wednesday and Thursday he did equal amounts of push-ups. He did half as many on Monday as Tuesday. On Wednesday, he increased his previous number by 5. How many push-ups did he do from Monday through Friday if he did twelve on Tuesday? a. 142 b. 78 c. 70 d. 118 e. none of these									
17.		ım of the composite			the prime numbers e. none of these				
18. Jan bought 2 pounds of sour jelly bellys at \$1.30 per pound. She bought $\frac{1}{2}$ pound of sour straws at \$.80 per pound. What was her average cost per pound of candy? a. \$1.13 b. \$1.00 c. \$.70 d. \$1.20 e. none of these									
19.	On Brian's tes	t he correctly answ ctly?	wered 20 out of 2	5 questions. What	percentage did he				
a. 20% b. 80% c. 25% d. 5% e. none of these 20. Find the product of the perimeter and area of the triangle.									
		8 6							
	a. 720	b. 576	c. 960	d. 1152	e. none of these				

21. Meredith bought 20 donut holes and 4 donuts for a total of \$7.00. If donuts were 2 for a dollar, how much was each donut hole?

a. \$.75

a. 720

b. \$.15

b. 576

c. \$.50

c. 960

d. \$.25

e. none of these

- 22. In a quadrilateral PQRS, m<P=100°, m<Q=60°, and m<S=120°. Find m<R.
 - a. 180°
- b. 120°
- c. 80°
- d. 20°
- e. none of these
- 23. What is the percent of increase of an item if it was bought for \$4,000.00 and resold for \$5,000.00?
 - a. 80%
- b. 125%
- c 25%
- d. 20%
- e. none of these
- 24. The distance from Bombamdoey to Crawazawaza is 7.5 inches on a map. If the map's scale is $\frac{1}{2}$ " = 2 miles, what is the distance (in miles) between these two places?
 - a. 30
- b. 15
- c. 7.5
- d. 3.75
- e. none of these

- 25. $\frac{\frac{1}{6} \frac{1}{8}}{\frac{5}{6}}$
 - a. 1/20
- b. 5/144
- c. 5/4
- d. 3/5
- e. none of these
- TB1. What is the circumference of a circle with an area of 50.24 m²?
- TB2. Valerie's watch stopped at 9:20 p.m. What was the measure of the larger angle formed by the hands of the clock?
- TB3. Find m<y

