Cedar Ridge/Kiwanis Mathematics Tournament

February 19, 2000

Sixth Grade Exam

Directions

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

1.	What will be the date on the 189 th day of the year 2000?				
	A. July 6	B. July 7	C. July 8	D. July 13	
2.	A student had the What is the position	97, 100, 85, 93, 73, and 100. d the mode?			
	A. 2	B. 7	C. 15	D. 70	
3.	Samantha worked earn per hour?	8 hours on Sat	turday and earn	ed \$34. How much did she	
	A. \$4.50	B. \$4.35	C. \$4.20	D. \$4.10	
4.	In order to make a B in math, Joey must have an 85 test average. His four test scores are 95, 70, 87, and 90. What will he have to make on his last to in order to get a B?				
	A. 87	B. 79	C. 84	D. 83	
5.	The value of 0.9 + 1.6 + 0.007 + 8 is				
	A. 1.696	B. 4	C. 9.507	D. 10.507	
6.	What is the base of a triangle with a height of 7 cm and an area of 28 cm ² ?				
	A. 2 cm	B. 4 cm	C. 8 cm	D. 12 cm	
7.	What is the surface area of a rectangular box that is 3 inches wide, 5 inches long, and 7 inches tall?				
	A. 142 in ²	B. 71 in ²	C. 105 in ²	D. 210 in ²	
8.	What is the digit in the hundred's place of the sum of 767,264 and 32				
	A. 6	B. 7	C. 8	D. 9	
9.	Solve: $(6 \frac{1}{4} \times \frac{2}{3} \times 2^{1}/_{5}) \div \frac{5}{6}$				
	A. 14 ¹¹ / ₂₅	B. 12 ¹ / ₂₅	C. 11	D. 7 ²³ / ₂₆	
10.	Which of these numbers is not prime?				
	A. 89	B. 97	C. 121	D. 137	
11.	What is 75.5 % of 60?				
	A. 4.53	B. 31.02	C. 45.3	D. 64.8	

12.	Brandon took \$60 with him to Atlanta. He spent \$10 on lunch, \$11 on souvenirs for his family, \$15 at the arcade, and saved the rest for his trip home. What percent of the money did he spend?					
	A6 %	B. 17%	C. 40%	D. 60%		
13.	Simplify: $3^3 + 2^2$					
	A. 31	B. 17	C. 13	D. 25		
14.	A regular octagon has a perimeter of 288 cm. What is the length of one side?					
	A. 32 cm	B. 36 cm	C. 48 cm	D. 72 cm		
15.	Which of these car triangle?	nnot be the mea	asures of the de	grees of an isosceles		
	A. 15, 15, 160	B. 90, 45, 45	C. 30, 30, 120	D. 59, 59, 62		
16.	What is the product of all the positive odd number factors of 70?					
	A. 175	B. 245	C. 1225	D. 1960		
17.	What is the 10 th number in the following sequence?					
	0, 1, 3, 6, 10,,,,					
	A. 36	B. 40	C. 45	D. 55		
18.	What is the area of a circle with circumference 37.68 ft? (Use π = 3.14)					
	A. 28.26 ft ²	B. 113.04 ft ²	C. 254.34 ft ²	D. 452.16 ft ²		
19.	If a + 6 = 11 and 7b = 49, what is the value of ab?					
	A. 35	B. 30	C. 42	D. 28		
20.	Jeremy bought 3 pounds of apples for \$ 0.99 per pound and 2 pounds of pears for \$ 0.88 per pound. What was the average cost per pound? (Round to the nearest cent)					
	A. \$ 0.75	B. \$ 0.39	C. \$ 0.94	D. \$ 0.74		
21.	What is the measure of the complement of a 30° angle?					
	A. 50°	B. 60°	C. 100°	D. 120°		

22. What is (+ 3.74) + (- 9.5)?

A. 13.24

B. -13.24

C. 5.76

D. -5.76

23. Salena's watch stopped at exactly 8:00. What is the measure of the larger angle formed by the hour and minute hands of her watch?

A. 240°

B. 160°

C. 120°

D. 90°

24. What is the GCF of 36 and 48?

A. 2

B. 12

C. 144

D. 1726

25. What is the area of a square with perimeter of 44 cm?

A. 16 cm²

B. 44 cm²

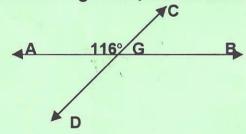
C. 121 cm²

D. 165 cm²

Tiebreaker Questions

TB1 The price of a \$50 sweater was reduced by 30%. One week later this sale price was reduced by 10%. What was the final sale price?

TB2 In the drawing below, what is the measure of Angle CGB?



TB3 What is 35% of 60% of 180?