Cullman Middle School Math Tournament 2011 5th Grade Test

1.	Find the third angle A) 20°	of a triangle if two ar B) 30°	ngles measure 80° a C) 150°	nd 70°. D) 180°		
2.	How many primes b A) 7	etween 1 and 50 are B) 2	divisible by 2? C) 1	D) 0		
3.	If 6x + 1 = 25 and 2y A) 8	y = 6, find x + y. B) 4 1/3	C) 7	D) 12		
4.	Divide 314,000,000 A) 0.314	by 100,000,000. B) 3.14	C) 31.4	D) 314		
5.	Find the area of a ci A) 32π	rcle with circumferen Β) 64 π	ce of 16π. C) 16 π	D) 256 π		
6.	Find $x^3 - y^3$ if $x = 10$ A) 271	and y = 9. B) 1	C) 3	D) 973		
7.	Find the prime facto A) 10•75	rization of 750. B) 2•3•5•5	C) 2•3•5•5•5	D) 1•750		
8.	A cookie recipe calls for 2 $\frac{1}{2}$ cups of sugar. How much sugar would you					
	A) 5 cups	B) 5 ½ cups	C) 6 ½ cups	D) 7 ½ cups		
9.	If $a \Delta b = (a + b) - (a + b) - (a + b) - (a + b) + (a $	a – b), find 2 ∆ 3. B) 6	C) 5	D) 2		
10.	Each letter in the word MATHEMATICS is written on a separate piece of paper and put in a bag. What is the probability that the first piece of paper drawn from the bag will be a vowel?					
	A) 11/4	B) 4/11	C) 4/7 D) 7/4	4		
11.	Consider the factors A) 2	of 30. How many a B) 3	re even? C) 4	D) 5		
12.	2. Solve for x. 14x – 15 = 41					
	A) 14	B) 3/2	C) 3	D) 4		
13.	Ben bought a baseball glove for \$25. If tax is 8%, what was the final price?					
	A) \$2	B) \$25	C) \$27	D) \$33		

14.	The perimeter of a rectangle is 68 cm. If the length is 20 cm, what is the width?						
	A) 14 cm	B) 20 cm	C) 28 cm	D) 40 cm			
15.	How many inches in A) 75 in	n 4 yd 2ft 3 in? B) 149 in	C) 171 in	D) 204 in			
16.	5 m + 2 cm + 3 mn A) 523	n = mm B) 5.023	C) 5,023	D) 50.23			
17.	If the ordered pair (- which quadrant will A) I	4, 6) is translated 3 the translated ordere B) II	units right and 7 unit ed pair be located? C) III	s down, in D) IV			
18.	Write from least to g A) 1/6, 3/8, 5/12, ½	greatest. ½, 3/8, 1, 3) ½, 3/8, 1/6, 5/12 C)	/6, 5/12 1/6, ½ , 5/12, 3/8 D) 1/6	, 3/8, 5/12, ½			
19.	Find the missing nu A) 6	mber. 12 x 10 x _ B) 12	= 4 x 5 x 12 x 6 C) 120	D) 144			
20.	Subtract five-eighths A) 2	s from nine-tenths. B) 0.275	C) 0.325	D) 0.625			
21.	1. On Feb. 10, 2011 the temperature in Oklahoma was - 31°F, the coldest ever. On Feb. 18, the high temperature was 80°F. What was the change in temperature from – 31°F to 80°F?						
	A) 80°F	B) 31°F	C) 49°F	D) 111°F			
22.	 2. Name the property demonstrated by a x b x 1 = a x b A) Distributive B) Identity C) Associative D) Commutative 						
23. Simplify. $-9+7-8+6-7+5-6+4-5+3-4+2-3+1$ A) - 10B) - 12C) - 15D) - 16							
24.	A regular decagon A) 8 in	has a perimeter of 1 B) 10 in C) 1	25 in. Find the lengtl 2.5 in D) 1,2	h of one side. 250 in			
 25. If P = number of sides in a pentagon, I = the first non-negative integer, D = number of days in a leap year, A = sum of the measures of the angles in a triangle and Y = number of years in a decade, find P + I + D + A + Y. A) 651 B) 652 C) 561 D) 562 							
Write the tiebreaker answers on the back of your Scantron. Tiebreaker 1: Adam's math grades are 90, 85, 98, 94, and 95. Find his mean test score.							
Tiebreaker 2: If 4 $^{\prime 2}$ = 2 and 9 $^{\prime 2}$ = 3, find 36 $^{\prime 2}$ + 100 $^{\prime 2}$ Tiebreaker 3: 30 billion divided by 20 million =							