Cullman Middle School Math Tournament 2012 6th Grade Test

1.	What is the probab A. 1/6	ility of flipping a coin B. 6	6 times and g C. 1/64		eads in a row? 1/15,625		
2.	If $a = 3$, $b = 11$ and $c = 4$. 82	= 5, find $(a + c)^2 + 6b$. B. 130 C. 33		D. 262			
3.	Find the sum of the 5, 4, 5, 9, 8, 9, 4,	9, 2, 10	_				
	A. 11.4	B. 14.5	C. 15.4	D.	15.5		
4.	Find the millionths of A. 8	digit in the decimal for B. 5	orm of 1/7. C. 7	D.	1		
5.	If today is Saturday A. Friday	v, what day of the we B. Saturday	ek will it by in C. Sunday		Monday		
6.	Find the area of a tr	iangle formed by the B. 24	e vertices (0,0) C. 48		I (8,0). 100		
7. A chime clock strikes 1 chime at one o'clock, 2 chimes at two o'clock at three o'clock and so on. What is the total number of chimes that w							
	twelve hour period? A. 12	B. 24	C. 144	D.	156		
8.	Which of the followi A. 45, 45	ng angles are supple B. 45, 50	ementary? C. 80, 100	D.	100, 260		
9.	If $5x - 20 = -40$ and A. 19	d 5y = 1, find 5x + 5y B. <i>–</i> 19	C. 21	D.	– 21		
10. The math team parents send 3 dozen donuts and 2 gallons of milk for a							
	breakfast treat. How A. 8	w many cups of milk B. 16	are in 2 gallor C. 32		36		
11. For Will's birthday, his mom baked her famous chocolate chip cake. Will's Emma, Emily and Peyton ate 1/3, 1/6 and 1/4 of the cake. What fraction v							
	for Will? A. 1/8	B. 1/12	C. 3/4	D.	1/4		
12.	The letters in the w What is the probabi A. 2/7	ord ALABAMA are w lity of choosing an A B. 3/7		A without			
13.	If L = the least compactor of 14, 28 and	•	nd 21 and G =	the greate	est common		
	A. 49	B. 56	C. 14	D.	63		

14. A train moving at a constant speed travels 180 miles in 4 hours. How many miles will the train travel in 7 hours?

15.	By how much does A. 25	$3^2 + 3^3 + 4^2$ exceed B. 3	the C.	•	nd 4 D.		
16.	Simplify: 30 – 2(12 A. 196	2 ÷ 2 + 1). B. 16	C.	22	D.	112	
				$\frac{4\times10^5}{7\times10^2}$			
17.	17. Simplify and write in standard notation:						
	A. 2	B. 20	C.	200	D.	2000	
18.	Which point is four A. (3, 7)	units up and seven B. (0, 10)		s right of the poin (0, –4)	•	•	
19.	Find the sum of the A. 17	e exponents in the pr B. 2	ime C.		700 D.		
20.	If the surface area of A. 6 cm ³	of a cube is 216 cm², B. 36 cm³			D.	10077696 cm ³	
21.	If $x \triangle y = 2x^2 + 3y^2$, A. 46	find 4 Δ 5. B. 107	C.	289	D.	100	
22.	Mary Beth bought	a Kavu purse at Purs	ses	R Us for \$24 afte	r a	25% discount.	
		nal price of the purse B. \$30	?	\$36		\$48	
23.	Multiply 2 ½ by the A. 1	reciprocal of 2 ½ . B. 6 ¼	C.	12 ½	D.	25	
24.	24. If S = seconds in two minutes, T = sum of angles in a triangle, P = number of sides in a pentagon, A = number of angles in a heptagon, R = number of degree in a right angle, I = number of sides in an icosagon, C = sum of complementary angles and K = 17, find S + T + P + A + T + R + I + C + K.						
	A.	В.		528	D.	529	
25.	Considering the factors?	tors of 48, what is th	e ra	tio of prime facto	rs t	o composite	
	A. 2/7	B. 3/7	C.	2/9	D.	1/4	
Tiebre Scantr		the tiebreaker answ	ers	in the top margin	S OI	n the back of you	
Tiebreaker 1: $-5^0 - 5^1 - 5^2 - (-5)^3$ Tiebreaker 2: How many prime numbers are there between 1 and 50? Tiebreaker 3: Simplify $24 \div 2 \cdot 6 \div 3 \cdot 18 \div 9$							

D. 420 miles

A. 360 miles

Turn in the pink Scantron answer sheet to the monitor. You may keep the test.