Franklin Math Bowl Sixth Grade Test 2010

	Sammy played a game that involved gaining or losing counters. In the first round he gained 7 counters. In the second he lost five. In the third he lost eight. In succeeding rounds he gained ten, lost 3, gained 11, and gained two. What was his net gain or loss?										
	(A) lost 14		(B) lo	st 12		(C) gai	ned 12	(I)) gai	ned 14	
2.	What is the next Rom (A) MCMXLX		nan numeral after MC (B) MCMXLVII		CMXLIX? (C) MCML			(D) MCMD			
3.	The current t (A) Midnight) minutes a	_	O) 4:1	0 AM	
4.	How many $\frac{1}{4}$ (A) 2			irger patt (C) 32			de with 8	poun	ds of g	ground	beef?
5.	If a triangle h (A) isosceles			gth 4, 6, a quilateral			nd of trian (C) right	•		(D) sca	alene
6.	A triangle has third side?	s sides (of leng	th 5 and 9	. Whi	ch of th	ese could <i>r</i>	ot be	the le	ength o	f the
	(A) 4	(B) 12	2	(C) 6		(D) 16					
7.	The sum of the (A) 900°								length	s of the	e sides
8.	Which of the	se decir	nals is	closest to	$\frac{14}{17}$?						
	(A) 0.83	(B) 0.	82	(C) 1.21	-	(D) 0.2	3				
9.	As the result prize. How m					le each ;	get the san	ne sha	are of	a \$6.3	million
	(A) \$42,000		(B) \$	2380.95		(C) \$42	200	(I)) \$9 ₄	450	
10	.(501 + 502 + (A) 12,825					-		+ 24	+ 25)	= ?	

(A) 16	(B) 6	17			
		(0	.) 8	(D) 12	
12. A rectar	_	mes as lor	ng as it is wi	de. Its width is	s 7 cm. What is its
(A) 35	cm	(B) 70 cr	m	(C) 196 cm	(D) 56 cm
	e sum of the 1 (B) 20			17 and 431 ÷ (D) 83	54.
14. What di	git is in the t	en thousa	ndths place	of the decimal	for $\frac{367}{212}$?
	(B) 8				819
	expression m + 7 (B) 7			n five times a n (D) 5 <i>n</i> - 7	umber?
16.What ar	nswer would	a comput	er give to 4	^(1+2)?	
(A) 64	(B) 20	0) (0	2) 12	(D) $1\frac{1}{3}$	
	7: (3 + 5·4)² - 18		(C) 40	03	(D) 523
18. Serena (A) ½	flips a coin tv			ability that at 1	least one coin lands tails up?
chips, a	nd three diffe	erent beve ink) are po	erages. How	many differen	hree breads, five kinds of it meals (one each of meat,
	te equation: $\frac{1}{2}$	2		(D) $y = 17$	
21. In the ta	able below, v	vhich equa	ntion would	show how x ar	nd <i>y</i> are related?
- - - - - - - - - - 	2 3 4 0 16 22	5 28			

(A) y = 2x - 6 (B) y = x + 6 (C) y = 4x (D) y = 6x - 2

- **22.** What is the reciprocal of the sum of $\frac{5}{8}$, $\frac{7}{16}$, and $\frac{3}{5}$?

 (A) $\frac{133}{80}$ (B) $\frac{80}{133}$ (C) $\frac{81}{53}$

- (D) $\frac{29}{15}$
- **23.** The figure at right is a sector of a circle. ∠*ECD* measures 60°. The length of \overline{CD} is 18 inches. What is the area of the sector?
 - (A) $9\pi \text{ in.}^2$
- (B) $54\pi \text{ in.}^2$ (C) $324\pi \text{ in.}^2$ (D)



- 24.30% of a number is 42. What is 50% of that number?
 - (A) 21
- (B) 70
- (C) 7
- (D) 25.2
- 25. The McFatridge family has a rectangular garden with a sidewalk around it. The garden measures 32 feet by 26 feet. The sidewalk is 3.5 feet wide. What is the perimeter of the outside of the sidewalk?
 - (A) 144 ft
- (B) 130 ft
- (C) 123 ft
- (D) 1287 ft