	1. a, b, c are whole numbers satisfying the condition 1 < a < 17, and the product ac is odd. What is the value of b?	o < c <
	(a) 7 (c) 3 (d) 2	olinol
MAN.O.	He can carry various amounts of snacks: one bag of chips, of candy bar, and one soda; OR 4 candy bars; OR 3 bags of ch	ips; OR
	two cans of soda. There are 5 brands of chips, 4 brands of and 6 brands of candy bars. In the case Kemp carries the skind of snacks, each of them have to be of a different brandhow many combinations of snacks can Kemp bring back to he seat?	ame nd.
	(a) 108 (c) 151	
MNN.	(a) 108 (c) 151 (d) 100	W Collinson
	and the second s	

3. Jack is playing a children's card game. He will win if he draws at least one fire, one water, one dark, one earth, and one wind type card within the next 5 draws. If Jack deck is composed solely of 1/5 of each type and one of the draws does not affect the chances of the next draw, find the probability of Eric winning. (c) 51/625 (a) 31/225 (b) 28/225 (d) 24/625

4. The only animals on Farmer Justin's farm are cows and chickens. If Justin counts a total of 45 heads and a total of 126 chickens. If Justin counts a total of 45 heads and a feet, find the number of cows on Justin's farm.

(a) 15

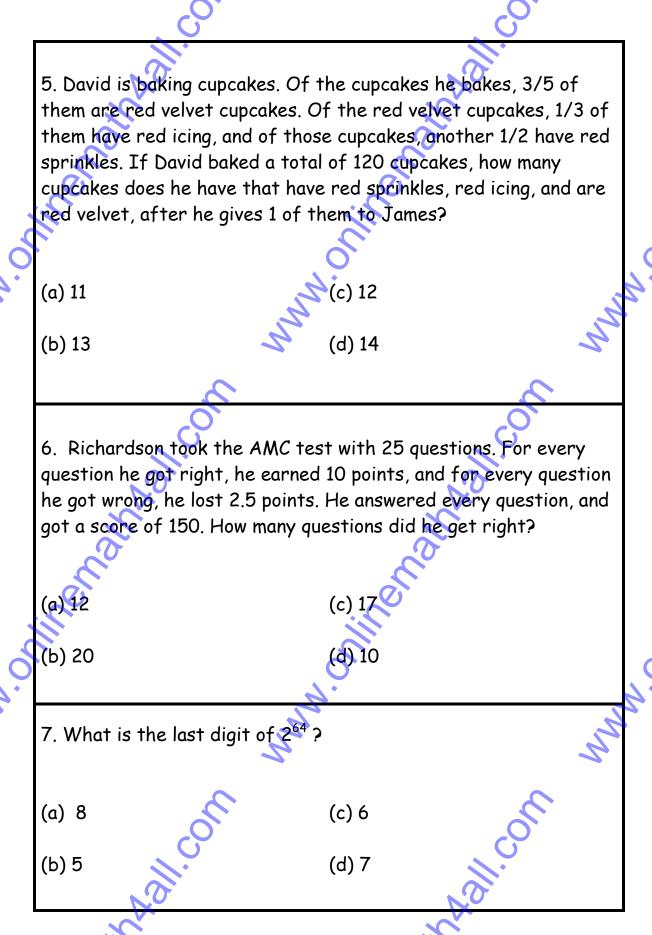
(b) 18

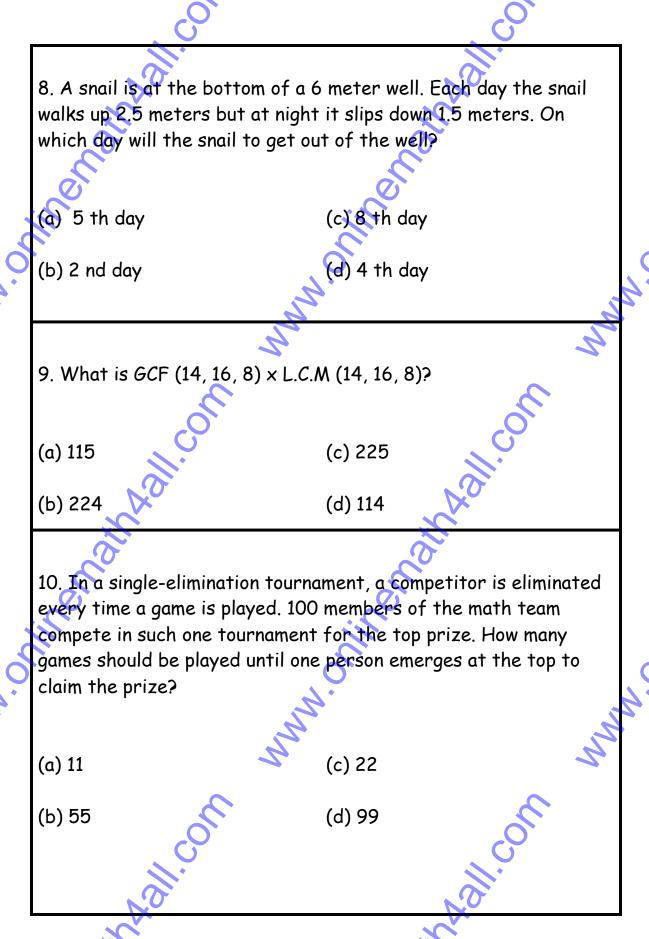
(c) 17

(d) 16

(b) 18

and the second s





11. As an attempt to gain weight, Jongwhan eats 10 cupcakes on day 1, and every day eats 4 cupcakes more than he the day before starting on day 2. Meanwhile, as an attempt to lose weight, Michael eats 100 cupcakes on day 1, and every day eats 3 cupcakes less than he did the day before, starting on day 2. Find the total number of cupcakes consumed by Jongwhan and Michael starting from day 1 to day 30.

(a)1415

(c) 3735

(b) 2765

(d) 5755

12. Find the area of an equilateral triangle with side length 4.

(a) 2√3

(c) 4√3

(b) 3√3

(d) $5\sqrt{3}$

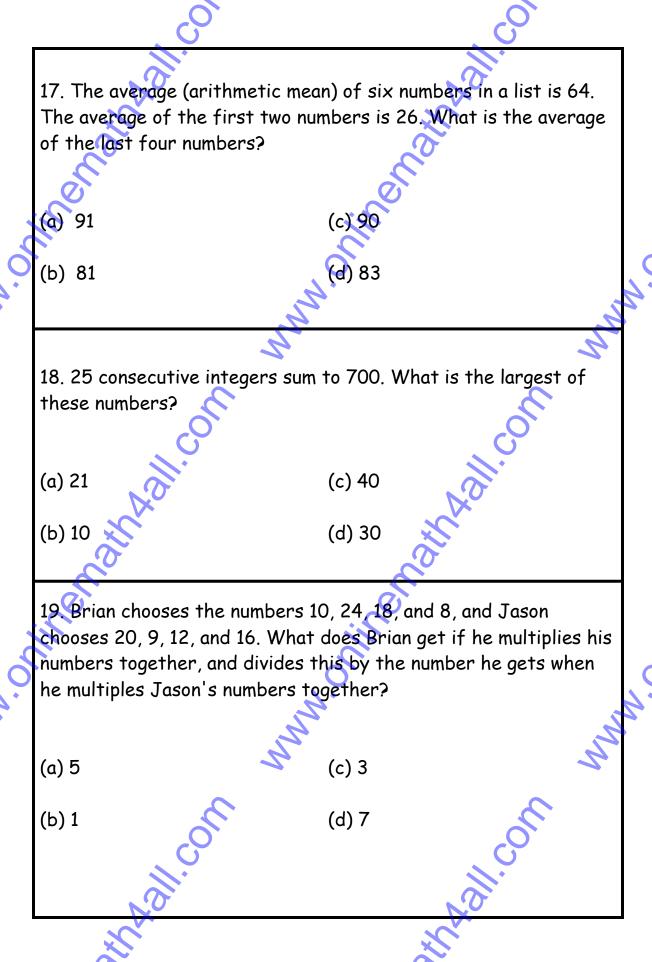
13. If x + y = 3 and x + 2y = 7, find x + 3y.

(a) 11

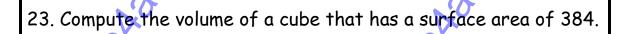
(c) 13

(b) 12

	COM		550
	14. A number a is called a div For example, 3 is a divisor of of positive integer divisors o	12, while 5 is not. Find the factor of the f	ne number
WWW.	(a) 8 (b) 7	(c) 6 (d) 5	AN OF THE PARTY OF
	15. There is a positive intege of n is equal to n, and 7 divide	es n. Find n.	
	(a) 5 (b) 7	(c) 10 (d) 8	
NAN-	16. Alice, Bob, Caroll, Dave, a is standing next to Dave, Eve immediately after Eve. Carol Who is standing in the middle	is in front of Carol, and l is standing immediately a	Bob is
4	(a) Alice	(c) Bob	7
	(b) Dave	(d) Eve	550
	College	Mail	



	COLL		COM	
	20. Isabel was hungry, of 1/2 of what was left. If what is the least number cut into?	f they both ate a whole	number of slices, za was originally	
	(a) 5	(c) 2		Colino.
WW.	(b) 3	(d) 9		0
	21. Victoria finds 6 coir 4 are always fake. How the minimum of 25 real	many times does she ha coins?	ve to go out to get	
	(a) 11		Nall.	
	(b) 13 (b)	(d) 14		inor
MM4.	22. Mary buys a textbo 20% off. Find the amou textbook when it was or	int of money she saved b	orice of \$40 at by buying her	A CHO CHILO
	(a) \$1	(c) \$7		
	(b) \$5	(d) \$8		
	(b) \$5		Nall. off	8



(c) 512

(a) 420 (b) 602

(d) 331

24. What two-digit number evenly divides both 437 and 551?

(a) 19

(c) 22

(b) 23

(d) 34

25. 30 + 60 + 90 + 120 = (1 + 2 + 3 + 4)?

(a) 30

(c) 13

(b) 12

(d) 29

26. Calculate 25 x 25 x 16 x 64.

(a) 590000

(c) 490000

(b) 640000



$$\frac{1}{3} + \frac{1}{8} + \frac{1}{15} + \frac{1}{24} + \frac{1}{35} + \frac{1}{48} + \frac{1}{63} + \frac{1}{80}$$

(a) 12/45

(c) 11/45

(b) 28/45

(d) 29/45

28. Find (7/5) - (1/3) in lowest terms.

(a) 11/15

(c) 16/15

(b) 8/5

(d) 4/5

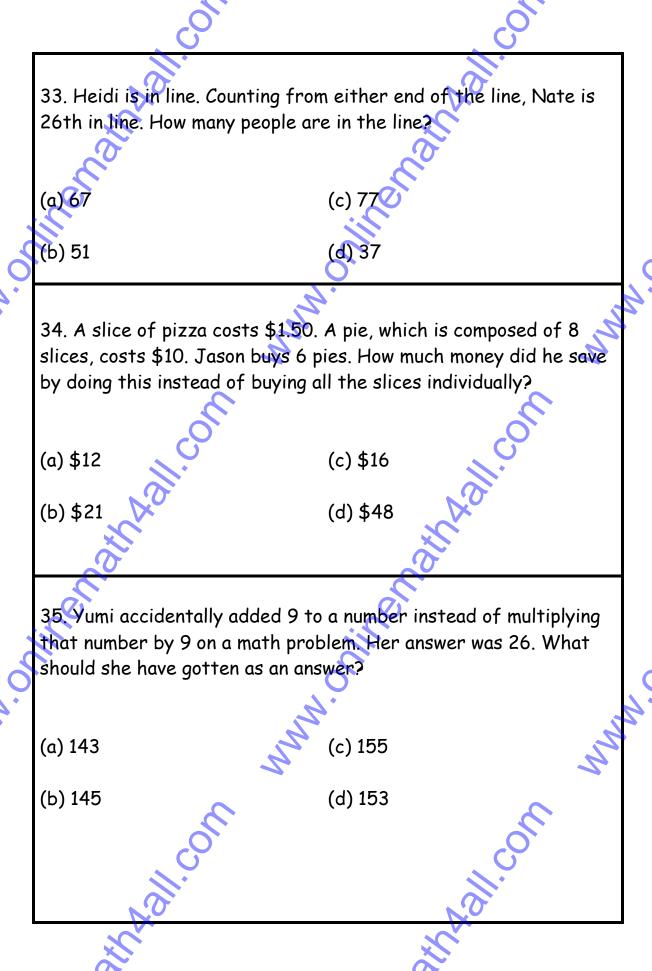
29 A Gigantic man named David likes to eat Veggie Loops. On Mondays he eats 10 Veggie Loops. On Tuesdays, he eats 20 Veggie Loops. On Wednesdays he eats 30 Veggie Loops. If this pattern continues, how many Veggie Loops will he eat in one week?

(a) 280

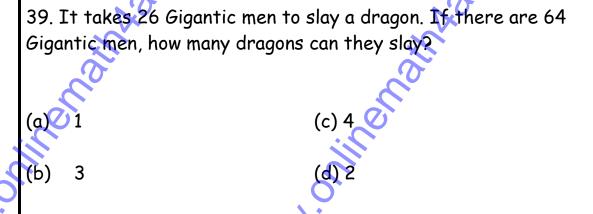
(c) 312

(b) 221

	30. Hot dogs are sold in packages of 6 and hot dog buns are sold in packages of 8. If you want to match every hot dog you buy with a bun, what is the least number of bun packages you need to accommodate 4 packages of hot dogs?	
May.	(a) 1 (b) 5 (d) 3	W. Co.
N	31. You are playing a game of hearts with your three friends. Each person is dealt 13 cards from a standard 52 card deck. What is the probability that you get the ace of diamonds?	
	(a) 1/4 (c) 1/2 (d) 1 (d) 1	
	32 A cat runs in a circular path of radius 16 feet. If the cat	
MAN.	completes exactly one run around the circle, then how many feet will the cat have travelled? Round your answer to the nearest foot.	4.
	(a) 180 (b) 150 (c) 101 (d) 192	



	COM	COL	
	36. Evaluate 40% of 400.	(c) 160 COLLAR	
	(a) 130	(c) 160	2
	(b) 140	(d) 150	Officer
4.	37 James and Steven shar	red a blueberry pie with 8 equally	v-sized
MAN,	slices. The cost of a plain p whipped cream to one half	pie was \$8, and the cost of addir of a pie was \$1. Steven ate four	ng slices
		one slice of plain pie. James ate t for what he ate. How many more n James?	
	(a) \$2 (b) \$3		
	(b) \$300	(d) \$4	
	38. The sum of three cons product?	ecutive integers is 30. What is t	heir
MMA.			heir Monlings
	(a) 943 (b) 990	(c) 955 (d) 953	
	200		
	Car.		



40. The formula for converting Celsius temperatures to Fahrenheit temperatures is

$$F = \frac{9}{5}C + 32.$$

Now Convert 45°C to degrees Fahrenheit.

(a) 113° F

(c) 313° F

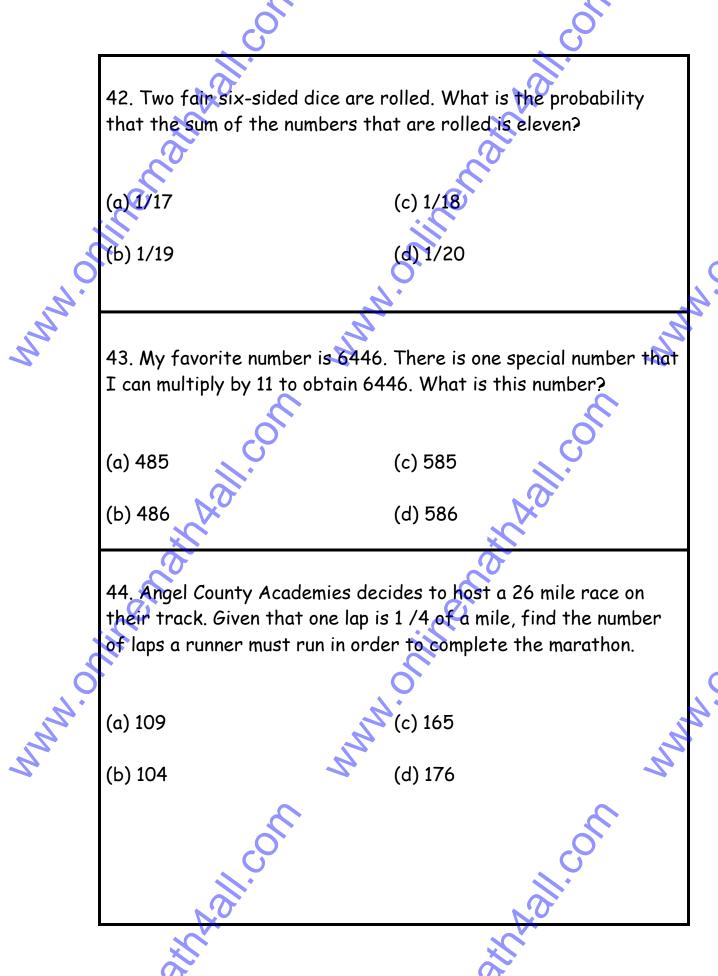
(d) 413° F

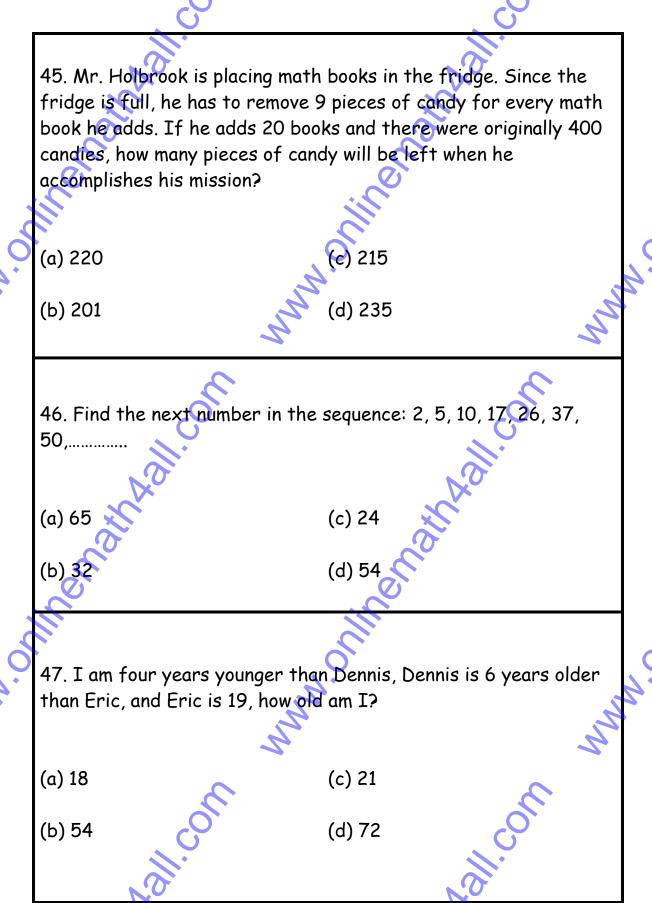
41. What is the sum that is most likely to be obtained by rolling two dice at the same time? (Each die is numbered 1-6)

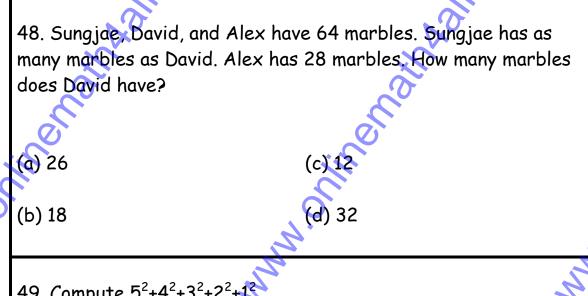
(a)7

(c) 3

(b) 8







(a) 26

(b) 18

49. Compute $5^2+4^2+3^2+2^2+1$

(a) 10

(c) 30

(b) 22

(d) 55

50. How many positive multiples of 17 are less than 100?

		· cos				on	
	Answers	Molling			XXXXX	•	
	1. b	2. c	3. d	4. b	5. a	6. c	Molling Control
MMM	7. c	8. a	9. b	10. d	11. c	12. c	OCH
hun	13. a	14. a	15. b	16. a	17. d	18. c	
	19. b		21. b	22. d	23. c	24. a	
	25. α	26. b	27. d	28. c	29. 0	30. d	
hunging	31. a	32. c	33. b	34. a	35. d 41. a 47. c	36. c	MAN CHICAGO
	37. b	38. b	39. d	40. a	41. a	42. c	OCITI
nn	43. d	44. b	45. a	46. a	47. c	48. b	LY LY
	49. d	50. c			Na N	off	
		NO			No.		
					Coll		