Part A

1.	What is the value of $\frac{1}{\frac{2}{3} + \frac{1}{2}}$?						
	(A) $\frac{5}{7}$	(B) $\frac{6}{7}$	(C) 1	(D) $\frac{7}{6}$	(E) 2		
2.	Two books cost a cost of the less ex	total of \$20.95. On pensive book?	e of the books costs	\$ \$3.15 more than th	e other. What is the		
	(A) \$8.50	(B) \$9.25	(C) \$11.45	(D) \$12.45	(E) None of these		
3.	An automobile tra	avels 60 km in 45 m	inutes. Its speed in	kilometres per hour	is		
	(A) 45	(B) 72	(C) 75	(D) 80	(E) 90		
4.	In a box of 40 cookies, 24 of the cookies were round and 20 of them were made of chocolate. If 12 cookies were neither round nor made of chocolate, how many round chocolate cookies were in the box?						
	(A) 4	(B) 8	(C) 16	(D) 20	(E) 28		
5.	Six years ago, Samuel was 3/5 of his current age. How old is Samuel now?						
	(A) 15	(B) 21	(C) 25	(D) 30	(E) None of these		
6.	The value of $\frac{99 \times 101}{.10}$ is closest to						
	(A) 100	(B) 1000	(C) 10 000	(D) 100 000	(E) 1 000 000		
7.	If A is 10% of C,	and B is 25% of C,	what percent of B is	s A?			
	(A) 2.5	(B) 15	(C) 35	(D) 40	(E) 250		

8. If $\frac{x-1}{x+1} =$	$\frac{30}{42}$, what is the value	ue of x?		
(A) 4	(B) 5	(C) 6	(D) 7	(E) 31

9. Water pours into a container at a constant rate of 4 litres per minute. When there are 50 litres of water in the container, a pump begins to pump water out at a rate of 5 litres per minute. How many minutes will it take to empty the container?

(A) 10	(B) 24	(C) 50	(D) 120	(E) None of these
10. What is the v	value of $\frac{1}{1+\frac{1}{x}}$ whe	$n x = \frac{1}{4}?$		
(A) $\frac{1}{5}$	(B) $\frac{4}{5}$	(C) $\frac{5}{4}$	(D) 4	(E) 5

Part B

11. Suppose that $a * b = b + \frac{1}{a}$. What is the value of $(1*2)*3?$							
(A) $\frac{3}{10}$	(B) $\frac{9}{7}$	(C) $\frac{11}{6}$	(D) $\frac{10}{3}$	(E) $\frac{11}{3}$			
12. The product of multiplied by 4 result of this ca	two numbers is 8 . The product of alculation?	4. The first number is the two new numbers	is divided by 3 and s is then divided by	the second number is 2. What is the final			
(A) 14	(B) 24	(C) 42	(D) 56	(E) None of these			
13. What is the next number in the sequence 2, 1, 3, 4, 7, 11,?							
(A) 10	(B) 12	(C) 15	(D) 18	(E) 22			
14. Alice was tested three times. Her second test mark was twice as large as the first and the third mark was three times as large as the second. The average mark for all three tests was 60. What was the second mark?							
(A) 20	(B) 40	(C) 60	(D) 120	(E) Not enough information			
15. How many dif	ferent squares are	there in the figure sh	own at right?				

	(A) 19	(B) 20	(C) 21	(D) 22	(E) 23
--	--------	--------	--------	--------	--------

16. A student walks from home to school and returns riding on a bus along the same route. The entire trip takes 40 minutes. If the bus travels 7 times as fast as the student can walk, how long would it take the student to walk in both directions?

(A) 60 min	(B) 70 min	(C) 75 min	(D) 80 min	(E) None of these
------------	------------	------------	------------	-------------------

17. In an archery competition, Galen hits the bullseye three times as often as Jason. Jason hits it four times fewer than Kevin and Eddy hits it one less than twice the number of times that Kevin does. Nathalie hits the bullseye as many times as Jason and Galen combined. If Kevin hits the bullseye 9 times, how many times was the bullseye hit?

(A) 24	(B) 42	(C) 54	(D) 60	(E) 66				
18. How many even integers between 15 and 75 are not evenly divisible by 3?								
(A) 10	(B) 15	(C) 20	(D) 30	(E) 45				
19. Six integers a between any t	re selected from 1 to two of them is as lar	o 100 in such a way rge as possible. Wh	that the smallest po at is this difference	ositive difference ?				
(A) 16	(B) 17	(C) 19	(D) 20	(E) None of these				
20. What is the si	nallest positive inte	ger which multiplie	d by 40 gives a perf	Sect square?				
(A) 2	(B) 5	(C) 20	(D) 40	(E) None of these				

Part C

21. How many triangles are there in the figure shown?

(A) 22	(B) 26	(C) 28	(D) 30	(E) None of these				
22. The sum of the sum of the first	first 100 terms of t 100 terms of the se	the sequence 1, -2, equence 1, 2, -3, 4, 5	3, 4, -5, 6, 7, -8, 9, 5, -6, 7, 8, -9, 10	10 is 1750. The is equal to				
(A) 1684	(B) 1717	(C) 1783	(D) 1816	(E) None of these				
23. Which of the fo	23. Which of the following is the smallest?							
(A) $\frac{2}{1-\frac{1}{3}}$	(B) $\frac{2}{1+\frac{1}{3}}$	(C) $\frac{3}{1+\frac{1}{2}}$	(D) $\frac{3}{1-\frac{1}{2}}$	(E) $\frac{2}{\frac{1}{2} + \frac{1}{3}}$				
24. Jonas takes a tv following answ	vo-digit number an ers is a possible re	d subtracts the sum sult of the calculation	of the digits from it	. Which of the				
(A) 42	(B) 49	(C) 55	(D) 63	(E) Not enough information				

25. The first 15 odd integers are multiplied together. The answer ends with the digit

- (A) 1 (B) 3 (C) 5 (D) 7 (E) 9
- 26. The integers from 1 to 9 are each written once in a 3 x 3 table. The totals of the values in each row and column are given. What number is in the space indicated by the * ?

					15	
					12	
				*	18	
		24	6	15		
(A) 4	(B) 5		(C) 6		(D) 7	(E) None of these