Part A

1.	$\frac{1}{10} + \frac{7}{100} + \frac{3}{1000}$	equals						
	(A) 0.011	(B) 0.0173	(C) 0.110	(D) 0.173	(E) 0.21			
2.	Which of the follo	Which of the following expressions does not equal 100?						
	(A) 34 + 46 + 55/ (D) (16 - 6) x 10	(5+6)+9	(B) 4 x (34 - 3 (E) All of them	x 3) 1 equal 100	(C) .4 x 250			
3.	The value closest	to one million is:						
	(A) 2 ¹⁰	(B) 2^{20}	(C) 2^{30}	(D) 2 ⁴⁰	(E) 2^{50}			
 A sequence of numbers is constructed by adding the previous two numbers of the sequence together. If the first two numbers are 1 and 3, the eighth number in the sequence is 								
	(A) 29	(B) 30	(C) 46	(D) 47	(E) 76			
5.	On the first day, N exactly twice as n than \$1000 in his	added to the box y will Nabil have more						
	(A) 8th day	(B) 9th day	(C) 10th day	(D) 11th day	(E) 1000th day			
6.	5. Starting at 9 and counting by 8's, Samuel counts 9, 17, 25, A number that will be counted i							
	(A) 85	(B) 86	(C) 87	(D) 88	(E) 89			
7.	Roman and Paul are driving on the same highway and both drive at a constant speed. Roman drives at 90 km/h and is 30 km ahead of Paul. If Paul drives at 100 km/h, how long will it take for Paul to catch Roman?							
	(A) 18 minutes	(B) 1 hour	(C) 2 hours	(D) 3 hours	(E) 4 hours			

8.	The value of	$\frac{3}{1+\frac{1}{2}} - \frac{2}{1+\frac{1}{3}}$ is?			
	(A) $-\frac{1}{6}$	(B) 0	(C) $\frac{5}{12}$	(D) $\frac{1}{2}$	(E) $\frac{7}{2}$

9. Julie sells 3 ducks and 4 chickens for \$70.30. One chicken and one duck together are sold for \$20.70. What is the price of a chicken?

(A) \$6.30	(B) \$8.20	(C) \$12.50	(D) \$14.10	(E) None of these
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10. Two men chop one ton of wood in two hours. How long will it take three men to chop three tons of wood?

(A) 2 hours	(B) $\frac{5}{2}$ hours	(C) 3 hours	(D) $\frac{10}{3}$ hours	(E) None of these
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Part B

11. An automobile dealer sells 2 models of cars, A and B. Model A can be purchased in 7 different colours and 4 different engine sizes. Model B comes in 8 colours and 3 engine sizes. How many cars must the dealer order to have one car of each model in each colour and engine size?

(A) 22	(B) 42	(C) 52	(D) 105	(E) 672
12. What is the va	alue of $(5(4+3))^2$?			
(A) 144	(B) 245	(C) 1225	(D) 5432	(E) None of these
13. You begin a n to do your wo on Monday ar Thursday?	ew job in which you rk, each day you can nd you made 45 toys	a make children's to n make 2 more toys a during the 5-day w	ys. Because you in than the previous da ork week, how man	nprove as you learn how ay. If you started work y toys did you make on
(A) 5	(B) 6	(C) 7	(D) 9	(E) 11
14. Twice the pro the smaller of	duct of two number these numbers?	s is 108 while one th	nird of their sum is s	5. What is the value of
(A) 5	(B) 6	(C) 7	(D) 8	(E) 9
15. Half of the stu number of gir	idents in a class are ls twice as large, wh	girls. If the number at would the percen	of boys was three t tage of boys in the	imes as large and the class become?
(A) 50%	(B) 60%	(C) 75%	(D) 80%	(E) Not enough information
16. The cost of vi persons had v the zoo on tha	siting a zoo is \$5 fo isited the zoo and th it day?	r an adult and \$3 for the revenue for the da	a child. By the end y was \$2368. How	d of the day, 630 many children visited
(A) 239	(B) 240	(C) 300	(D) 390	(E) 391

17. In the following 4x4 diagram, each row, each column and each diagonal contains each of the numbers 1, 2, 3 and 4. What is the value of a + b?

			· ·				
	1	а	b				
	ļ	2					
			3				
			1				
(A) 3	(B) 4	(C) 5	-	(D) 6	(E) 7		
18. How many 3's an	e used when writi	ing all of the	integers f	from 1 to 1	100?		
(A) 10	(B) 19	(C) 20		(D) 21	(E) None of these		
19. How much 1% fat milk should we mix with 15% fat cream to obtain 5 litres of 3% fat mixture?							
(A) $\frac{5}{7}$ 1.	(B) 1 l.	(C) 3 1		(D) 4 1	. (E) $\frac{30}{7}$ 1.		
20. A reservoir has 3 sources of water. Source A can fill the reservoir in 2 days, source B in 3 days and source C in 6 days. How long would it take to fill the reservoir using all 3 sources?							
(A) $\frac{1}{2}$ day	(B) 1 day	(C) 2 d	ays	(D) $\frac{5}{2}$	days (E) None of these		

Part C

21. How many triangles can be found in the figure shown below?

(A) 12	(B) 14	(C) 16	(D) 18	(E) 20		
22. A cube compo cubes. How r	based of 64 $1 \times 1 \times 1$ many of the $1 \times 1 \times 1$	l cubes is painted a 1 cubes will have e	nd then broken apar xactly 2 painted face	t again into the smaller es?		
(A) 8	(B) 16	(C) 24	(D) 36	(E) 48		
23. The positive i appearing in t	ntegers, starting wi he 100th place is	th 1, are written in o	order 123456789101	112 The digit		
(A) 0	(B) 4	(C) 5	(D) 6	(E) 7		
24. What is the last digit of the number 7^{2006} ?						
(A) 1	(B) 3	(C) 5	(D) 7	(E) 9		
25. The digits 1, 2, 3, 4 and 5 can be arranged to form 120 different numbers. How many of these numbers will have the digits 1 and 2 in increasing order? For example, 14352 and 51234 are two such numbers.						
(A) 6	(B) 12	(C) 24	(D) 60	(E) None of these		

26. The length, L, of a rectangle is increased by 50% and the width, W, is doubled to form a larger rectangle with an area of 30 cm². What is the largest possible perimeter of the larger rectangle if L and W are integers with L > W?