

ENTRANCE EXAMINATION INTO YEAR 7

SAMPLE MATHEMATICS PAPER

TIME ALLOWED: 1HOUR

NAME:			
SCHOOL:			
DATE OF BIRTH:			
CENTRE:			_
DATE OF EXAMINATION:			

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. Write your answers clearly.
- 2. You may do the questions in your head if you think they are easy, or do your working in the space provided.
- 3. If you do not show any working and your answer is wrong then you will get no marks.
- 4. If your answer is wrong but you have shown some working then you may still earn some "method" marks.
- 5. Calculators must NOT be used.
- 6. The approximate number of marks for each question is shown in brackets, e.g. [2]
- 7. If you do not clearly understand a question, do NOT waste time on it but move on to the next question. You can come back to it later.
- 8. Attempt all questions.

DO NOT START UNTIL YOU ARE TOLD TO DO SO. GOODLUCK!

1	Do these addition sums:	
	i) 2 3 8 ii) 3 6 7	
	+ 5 4 1 + 8 3 6	
		[4]
2.	Do these subtractions:	
	i) 7 5 8 ii) 4 2 1 6	
	- 4 1 1 - 1 9 5 2	
		[4]
3.	Find the cost of 21 Christmas stamps at 19 kobo each.	
		101
	Answer: #:K	[2]
4	Inside a Lagos Santa's grotto the temperature is +19° C due to gir-	
	conditioning. Outside, the temperature is +32° C.	
	How much warmer is it outside Santa's grotto compared with inside?	
	Answer: °C	
		[1]
5	The area of Delta state is approximately 528 100 square kilometros	
J.	Write this number in words	
	Answer:	
1	dauana Vilamatnad	
	square knomerres	[2]

6.	Kola has four favourite horses. Here is some information about them.					
		Name	Height	Weight	Speed	
			(cm)	(kg)	(kilometres per hour)	
		Dasher	112	135.5	21	
		Comet	107	142.4	19	
		Vixen	99	138.8	22	
		Rudolph	105	141.3	25	
 i) Which horse is the tallest? Answer: [1] ii) Which horse is the heaviest? Answer: [1] iii) Find the total weight of all four horses. 						[1]
	Answer: kg iv) Kola decides to ride Rudolph on a round trip of 2500 kilometres. How many hours will this trip take them?				[2]	
7.		a) Multip	oly 54 by 10	А).	nswer: hours	[2]
		b) Multip	oly 21 by 20	A) DO.	nswer:	[1]
				A	nswer:	[1]

8.	Write down the next two numbers in each of these number patterns:			
	a) 3, 5, 7, 9,,,	[2]		
	b) 3, 4, 6, 9, ,	[2]		
	c) 192, 96, 48, 24, ,	[2]		
9.	Four children took part in a 2000 metre race. One of them fell down			
	during the race, and had to pick up before continuing the race.			
	Here are their times:			
	Alice 3 minutes 13 seconds			
	David 2 minutes 55 seconds			
	Richard 4 minutes 17 seconds			
	Sandra 3 minutes 44 seconds			
	i) Who was the fastest? Answer:	[1]		
	ii) How many seconds after David did Alice finish?			
	Answer: seconds	[1]		
	iii) How many seconds after Sandra did Richard finish?			
	Answer: seconds	[1]		
	iv) Who do you think might have fallen down?	F4 7		
	Answer:	[1]		
10.	Delew is a list of numbered			
	Below is a list of numbers:			
	From the above list of numbers, write down	[1]		
	(i) A multiple of 4 Answer:			
	(II) A prime number greater than 17 Answer:	[1]		
	(iii) Drime factors of E1 Answer	[2]		
	(III) Prime factors of 51 Answer:	נכן		
	(iv) The median number Angular	[1]		
		_		
	(v) The product of 5 and 17 Answer:	[1]		

		1		
11.				
	i) A large bowl of orange and apple fruit drink contains 4800 millilitres. Write this amount in litres			
	Answer: litres	[1]		
	ii) A home-made Christmas cake weighs 3 kilograms and 80 grams Write	[-]		
	this amount in grams.			
	Answer: grams	[1]		
	iii) A table is 151 centimetres long. Write this amount in metres.			
	Answer: metres	[1]		
12.	Ken Saro-Wiwa, a Nigerian writer and an activist who fought for			
	ecological and social justice, was born on October 10, 1941 and died on			
	November 10, 1995. How old was Ken Saro-Wiwa when he died?			
	Answer: years old	[1]		
13	Kemi and Fola sat down to have their Christmas Dinner at 11 55 a m			
15.	They finished at 2.40 p.m. For how long did the lunch last?			
	i) Give your answer in hours and minutes:			
	Answer: hoursminutes	[2]		
	ii) Now convert this answer to minutes:			
	Answer: minutes	[1]		
14	It rained for 128 days in a particular year.			
	a) How many weeks and days does the rain last for the year?			
	Answer: weeks days	[2]		
	b) How many hours does the rain last for the year?			
	Answer: hours	[2]		



17.	A toy shop is having a New Year sale.				
	Тоу	Normal Price	Offer	Sale Price	
	Bulls	N8.50	Save N1 off Normal	N	F4 7
	eye		Price		[1]
	Stinky Pete	N12.00	Save $\frac{1}{4}$ of Normal Price	N	[1]
	Woody	N15.00	Save one-fifth of Normal Price	N	[1]
	Buzz	N	Pay three-quarters of the Normal Price	N13.50	[1]
	 i) There are four missing values in the table above. Fill them in. The toyshop also offers Jessie toys on special offer: Buy one Jessie toy at Normal Price, and the second at half price. Segun decides to buy two Jessie toys. The cost is exactly the same as if he had bought two Buzz toys. 				
			Answer: N	· · · · · · · · · · · · · · · ·	[3]
18.	Work out 34	7 multiplied by 2	25.		
			Answer:		[3]



21.	Three children have been counting the number of presents they have under the Christmas Tree. Akin has 5 presents, Bola has 6 presents and Stella has 9 presents.		
	i) What fraction of the presents is for Akin?		
	Answer:	[2]	
	ii) What percentage of the presents is for Stella?		
	Answer: %	[2]	
22.	Here is a list of all the whole numbers from 30 to 40 inclusive: 30 31 32 33 34 35 36 37 38 39 40		
	i) Write down the two prime numbers from the list:,	[2]	
	ii) Write down the multiple of 11 from the list:		
	iii) Write down a square number from the list:		
	iv) Write down the multiples of 8 from the list:,		
	v) Write down any factors of 120 from the list:,	[2]	
23.	i) Find 50% of 260. Answer:	[2]	
	ii) Find 70% of 310. Answer:	[2]	
	iii) Find 21% of 1600 Answer:	[3]	
STOP. Now go back and check your answers carefully.			