



FOREST school

11 +

ENTRANCE AND SCHOLARSHIP SAMPLE PAPERS

Sample Paper

FOREST SCHOOL SAMPLE ENTRANCE EXAMINATION MATHEMATICS

Calculators are **NOT** allowed Time: One hour

NAN	1E		
CAN	IDIDATE NUM	1BER	
1	Work out	76 + 65	
			ANSWER
2	Work out	92 – 57	
			ANSWER
3	Work out	73 x 8	
			ANSWER
4	Work out	868 ÷ 7	
<u>-</u>	E , 2 , 1 +	e gg e 7 e made	ANSWER
5	How many	£5 notes are needed to make £1	000 ?
			ANSWER

TURN OVER

- How much change would I get from £20 if I bought 3 pens at £1.60 each, 2 pencils at 62p each and a magazine for £4.50 ?

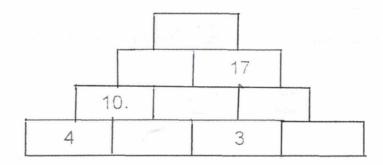
 ANSWER......
- 7 How many seconds are there in one week?

ANSWER.....

Daisy the cow takes 1 hour to walk 4 km. Silver Blaze the horse walks 3 times as fast as Daisy. At this speed how long would it take Silver Blaze to walk 4 km?

ANSWER...

In this pyramid each number is the sum of the two numbers below it. Complete the boxes.



10	Theo has taken 4 tests and his average mark is 60%. He scores 70% on his fifth test. What is his average now?
	ANSWER
11	Priya has 5p and 13p stamps. She can make a 36p total with two 5p stamps and two 13p stamps. How could she make the following totals?
	(a) 33p
	ANSWER
	(b) £1.26
	ANSWER
12	How could this sequence continue?
	3, 7, 11,,
Give	e the next 2 numbers with a reason for your answer.
	and the state of the control of the
ANS	SWERREASON
	TURN OVER

13	16 counter	s are a	range	d to ma	ike a 6	counte	er by 4 cou	nter border.		
		0	0	0	0	0	0			
		0					0			
		0					0			
		0	0	0	0	0	0			
	How many	counte	ers are	neede	d to ma	ake the	following?			
	(a)	A 20 c	ounter	by 5 co	ounter l	border				
							ANSWE	R		
	(b)	A 200	counte	er by 50) count	er bord	er			
							ANSWE	ER	erade es	
14	Write in d	igits the	e numb	er "fou	r millioi	n four h	nundred an	d four".		
			- 1 ₂₀₀ mil ²				ANSWE	R		
15	A 9 cm wi marbles w					cube-si	naped box	How many	3 cm wide	
							ANSWE	:R.		

16	In Norton Juster's book <i>The Phantom Tollboom</i> warmly on average 47 times a day. How often would you expect him to smile warm January)	
		ANSWER
17	On one day in 2008 £1 was worth \$1.25. What	at was \$1 worth in pence on that day?
18	Find the missing prime number	ANSWER
	29, 31, ? , 41, 43	
***************************************		ANSWER
19	A maths book costs £15.49. How much chang coins?	ge do you get if you pay only with £1
		ANSWER.

20	Gavinder is 11 years and 2 months old. Bhavash is 10 years and 8 months old. Siobhan is 9 years and 5 months old.
	What is their average age in years and months?
	ANSWER
	ANOVER
21 altoge	In a bag there are twice as many blue balls as red balls. There are 18 balls ether. How many blue balls are there?
	ANSWER
	1
22	Ayesha has some sweets. He gives $\frac{1}{6}$ of them to Neelesh.
	Neelesh immediately eats one of them. Neelesh now has 4 left. How many has Ayesha got left?

ANSWER.

	ANSWER
24	Multiply 21 by $\frac{2}{7}$
	ANSWER
25	Mike's copy of Leo Tolstoy's War and Peace is 981 pages long. Mike decides to read 25 pages a day. He finishes the book in how many days?
	ANSWER
26	Rule: If a card has a vowel on one side, then it has an even number on the other side.
	7 4 A D
	Which one of these four cards cannot have a 7 on the back?
	ANSWER

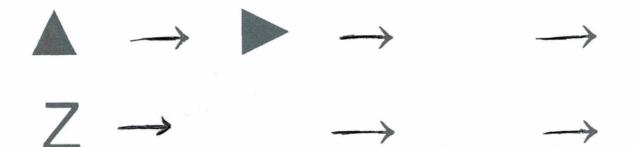
23

A film lasts 2 hours 20 minutes.

I start watching it at 7:45pm. At what time does it finish? 27 What is $\frac{1}{3}$ of 414?

ANSWER....

28 Complete these sequences of clockwise quarter turns



What is 0.15 as a fraction in its lowest terms?

ANSWER -

30 What is 1.83 + 0.2?

ANSWER =

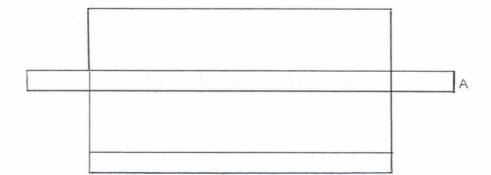
The Ancient Egyptians generally only used "unit fractions", having the number 1 as numerator (such as $\frac{1}{3}$ or $\frac{1}{7}$).

So they might write $\frac{5}{18}$ as $\frac{1}{9} \div \frac{1}{6}$

Write $\frac{2}{3}$ as the sum of 2 or more DIFFERENT unit fractions.

ANSWE	R	 	

32 This net is folded to make a box.
Mark clearly the edge which ends up next to edge A.



TURN OVER

33	Find the r The first to				s of ar	ranging th	he lette	ers CYZ	ZZ by lis	sting ti	hem all.
	CYZZ, CZ	YZ,									
						TOTAL	L NUM	BER O	F WAY	'S	
34	In a ches How man						ll play e	each of	ther one	ce.	
						Д	NSWE	R			• • • • • • • • • •
35	What are	the miss	sing dig	gits in th	is a dd	ition?					
		1	1	7							
		9	1								
	§	#	5	1							
						ANGWE	D 4				
						ANSWE		=,			
							#	=	2		
							Š	` = `			

36

ANSWER.																			
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What number is halfway between 1.9 and 1.99?

ANSV	/ER	

Using the totals given, can you calculate the price of each of the four shapes?



39	Jenny is doing a maths exam and scores 136 out of 214. How many marks did she miss out on?	
	ANSWER	
40	What is the 102 nd letter of this sequence of letters?	
	A E I O Ü A E I O U A E etc	
	ANSWER	
41	Prashant wants to tape "The Y Factor" one Saturday evening. It starts at 7:20pm and ends at 9:10pm He uses a three hour tape. How may spare minutes will he have on the tape when he has finished recording.	ng?
. 1	ANSWER,	
42	Romily and Reema are collecting money for charity. Romily collects £10 more than Reema. Altogether they collect £240. How much did Reema collect?	
	ANSWER:	