FOREST SCHOOL SAMPLE ENTRANCE EXAMINATION MATHEMATICS

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

		BER		
1	Work out	76 + 65		1
			ANSWER	
2	Work out	92 – 57		1
			ANSWER	N N
3	Work out	73 x 8		
			ANSWER	
4	Work out	868 ÷ 7		
			ANSWER	
5	How many	£5 notes are needed to make £	1000 ?	
			ANSWER	
			TU	RN OVER

6 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

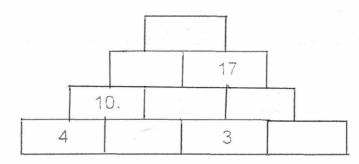
7 How many seconds are there in one week?

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?
	2 7 11
0:	3, 7, 11,
Give	e the next 2 numbers with a reason for your answer.
ANS	SWERREASON
	TURN OVER

13	16 counters	are ar	range	d to ma	ake a 6	counte	er by 4 co	unter border.		
		0	0	0	0	0	0			
		0					0			
		0					0			
		0	0	0	0	0	0			
	How many o	counte	ers are	neede	ed to ma	ake the	following	?		
	(a) A	4 20 c	ounter	by 5 c	ounter	border				
							ANSW	ΞR		
	(b) A	A 200	counte	er by 5	0 count	er bord	ler			
							ANSW	/ER	televela esces a conserva	
14	Write in dig	its the	numb	er "fou	ır millio	n four h	nundred a	nd four".		
							ANSW	ER		
15	A 9 cm wid					cube-st	naped bo	x. How many	3 cm wide	
							ANSW	ER. 2		

January)	31 days in
ANSWER	
On one day in 2008 £1 was worth \$1.25. What was \$1 worth in pence or	n that day?
ANSWER	
18 Find the missing prime number	
29, 31, ? , 41, 43	
ANSWER	
19 A maths book costs £15.49. How much change do you get if you pay on coins?	ly with £1
ANSWER.	

TURN OVER

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.
	Most in the insert of the contract of the cont

What is their average age in years and months?

		ANSWER	-
21 altoge	In a bag there are twice as many blue balls a ether. How many blue balls are there?	as red balls. There are 18 balls	
		ANSWER	-
22	Ayesha has some sweets. He gives $\frac{1}{2}$ of the	em to Neelesh.	

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.

	I start watching it at 7:45pm. At what time does it finish?		
		ANSWER	
24	Multiply 21 by $\frac{2}{7}$	and the second s	
		ANSWER	
25	Mike's copy of Leo Tolstoy's War and Pea Mike decides to read 25 pages a day. He finishes the book in how many days?	eace is 981 pages long.	
		ANSWER	
26	Rule: If a card has a vowel on one side, t side.	then it has an even number on the oth	ier
	7 4	AD	
	Which one of these four cards cannot ha	ave a 7 on the back?	
		ANSWER	****
***************************************		TURN	OVE

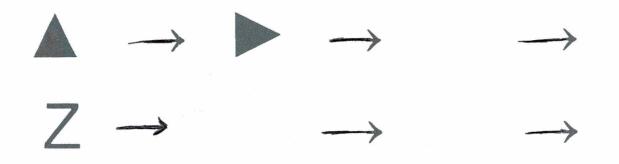
23

A film lasts 2 hours 20 minutes.

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 $\frac{1}{7}$).

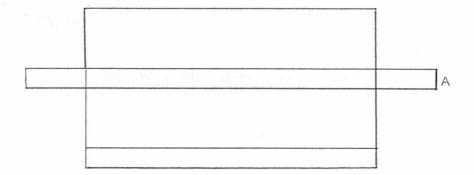
So they might write $\frac{5}{18}$ as $\frac{1}{9} + \frac{1}{6}$

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

ANSW	/FR			
MACAA	L. 1 \	 	 	

This net is folded to make a box.

Mark clearly the edge which ends up next to edge A.



TURN OVER

33	Find the number o The first two are d		s of arranging the	letters CYZZ by listing them all.
	CYZZ, CZYZ,			
			TOTAL N	UMBER OF WAYS.
34	In a chess league How many match			lay each other once.
			ANS	SWER
35	What are the miss	sing digits in th	nis addition?	
	1	7		
	9	1 #		
	§ #	5 1		
			ANSWER	A
				B =
				#=
				§ =

36

0.01010155		
ANSIMER		

What number is halfway between 1.9 and 1.99?

ANSWER.		
MINOVVEN.	 	

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

=		٠	٠	٠							 	•	٠		·	٠			٠					

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?
	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:

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