

GCSE Mathematics

Unit 1: Calculator NOT Allowed



Intermediate Tier

County Revision Paper 1A (Topics Relating to Number)

55 Minutes

School: _____

Student Name: _____

Question	Maximum	Mark
Question	Mark	Awarded
1	3	
2	3	
3	7	
4	3	
5	3	
6	2	
7	3	
8	3	
9	2	
10	6	
11	5	

1.	Showing all your working, write 0.65, $\frac{3}{5}$ and $\frac{70}{100}$ in descending order.	
		21
		5]
	They would only hire the hall for a third night if at least 0.9 of the tickets were sold the first two nights.	for either of
	On the second night, $\frac{3}{4}$ of the tickets were sold.	
	Did the band hire the concert hall for a third night? You must show all your working , explaining clearly how you decided.	[3]

(a) 0.4 × 0.7		F-1
(a)	0-4 × 0-7	[1]
(b)	13·8 – 7·45	[1]
(c)	3 ³ - 2 ⁴	[2]
(d)	$\frac{9}{10} - \frac{3}{5}$	[2]
$(\frac{1}{0.25})$	5	[1]
•••••		

4. (a)		A fair, six sided dice is rolled. What is the probability that a 3 <u>is not</u> shown on the dice? Circle your answer.					[1]
		56%	<u>5</u> 6	5:6	5.6	<u>1</u> 5	
	(b)	120 raffle ticket	s were sold at	a fete.			
		Sian has a 30% of How many ticke	chance of winn ts did Sian buy	ing the top priz	е.		[1]
	(c)	A bag contains a	a mixture of blu	ue beads, yellow	v beads and pir	nk beads.	
		One bead is take	en at random f	rom the bag.			

The probability that the bead is yellow is $\frac{2}{5}$

Which of the following sets of beads could have been in the bag? Circle your answer.



.....

[1]

2.3 million			leve.	
Cal	culate how many pots t	nere are of each co	iour.	[3]
	Blue	Yellow	Red	
Toom	A and B play in a cor	nnetition		I
rean		ilpetition.		
Tean Tean	n B has 8 more points n B has three times as	than Team A. many points as Te	eam A.	
Ho	w many points does ea	ach team have?		[2]
	Team A:	points	Team B: points	
	Team A:a	points	Team B: points	
A fra	Team A: ction is written as $\frac{a}{b}$	points	Team B: points	
A fra	Team A: ction is written as $\frac{a}{b}$ The fraction is a m The fraction is small	points nultiple of 0.1 aller than $\frac{1}{2}$	Team B: points	
A fra	Team A : ction is written as $\frac{a}{b}$ The fraction is a m The fraction is small The fraction is small	points nultiple of 0.1 aller than $\frac{1}{2}$ re than 35%	Team B: points	
A fra	Team A: ction is written as $\frac{a}{b}$ The fraction is a m The fraction is sma The fraction is mo Write down the fractio	points nultiple of 0.1 aller than $\frac{1}{2}$ re than 35%	Team B: points	[3]
A fra	Team A: ction is written as $\frac{a}{b}$ The fraction is a m The fraction is sma The fraction is mo Write down the fractio	points nultiple of 0.1 aller than $\frac{1}{2}$ re than 35% m as $\frac{a}{b}$, where <i>a</i> and	Team B: points	[3]
A fra	Team A: ction is written as $\frac{a}{b}$ The fraction is a m The fraction is sma The fraction is mo Write down the fractio	points nultiple of 0.1 aller than $\frac{1}{2}$ re than 35% m as $\frac{a}{b}$, where <i>a</i> and	Team B: points	[3]

-		
	617	
(b) $530 \times 43 =$	[1]	
	[1]	
(c) $455 \cdot 8 \div 0 \cdot 86 =$		
	[1]	
Clearly showing how you obtained your answer, ESTIMATE the value of		
154×4023		
590		
	(2)	
	[2]	
) Express 1200000 in standard form.		[1]
) Express 0.000051 in standard form.		[1]
4.8×10^5		[2]
) Calculate the value of $\frac{1}{2 \times 10^{-3}}$, giving your answer in standard form		

(a)	Express 240 as a product of prime numbers in index form. [3]
(b)	Use your answer to part <i>(a)</i> to write down 240 ² as a product of prime numbers in index form. [1]
c)	The number 387 420 489 is equal to 3 ¹⁸ .
	Explain how this tells you that 387 420 489 is a square number [1]