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II+ SPECIMEN PAPER MATHEMATICS

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Time allowed: 45 minutes

Instructions

- Use black or blue ink or ball-point pen for answers. Working can be in pencil or pen.
- Answer all questions.
- Answer the questions in the spaces provided there may be more space than you need.

Information

- The total mark for this paper is 73.
- Calculators are NOT allowed.

Advice

- Write your answers on the dotted lines provided.
- Show your working so it is clear how you obtained your answers.
- Try to answer every question.
- Check your answers if you have time at the end.



PLEASE COMPLETE IN CAPITAL LETTERS:

ŗ			1			
	1.	1. a) Write down the number eighteen thousand and thirty six in figures.				
		b) Write down the number eleven and nine thousandths as a decimal.				
			(2)			
	2.	Calculate $572 + 2639$				
			(2)			
I	3	Calculate 6431 - 729	(_)			
	5.					
			(2)			
	4.	Calculate 893 x 87				
			(2)			
	5.	Calculate 2874 ÷ 6				
			(2)			
l			I			

6. A menswear shops sells 7 times as many white shirts as checked shirts. 72 shirts are sold in total. How many white shirts are sold?	N.
	(2)
 Gavin buys four bottles of cola at £1.09 each and 8 chocolate bars at 62p. How much change should he receive from a ten-pound note (in pence)? 	
	(2)
 A length of rope is 5m long. It is cut into four unequal lengths. Three of the pieces are 147cm, 132.5cm and 67cm. How long is the fourth piece (in cm)? 	
	(2)
9. Fill in the missing numbers to make each equation correct.	
e.g. $36 + 32 = 49 + \dots 19$	
a) $92 + 29 = 47 + \dots$	
b) $87 - 48 = 63 - \dots$	
c) $50 \ge 9 = 6 \ge \dots$	
d) $9600 \div 80 = 720 \div \dots$	
	(4)

	answer is 27.	10. Jennifer thinks of a number. She subtracts twelve, then divides by two and then adds fifteen. Her answer is 27. What is the number of which Jennifer first thought?					
11 Tom	is 142cm tal	l and Harry is	168cm tall Jame	 es is halfway h	etween Tom's and H	arry's	
heig	ht. Workout.	James' height.	100cm tan. Jame	s is hallway b	etween rom s and n	arry s	
				••••			
12 4	alist servers /	151		unter dess it t	-les hands areals 1500) was at the a	
12. A cy same	clist covers 4 e rate?	45km in 3 hour	rs. How many mi	nutes does it t	ake her to cycle 1500)m at the	
12. A cy same	velist covers 4 e rate?	45km in 3 hour	rs. How many mi	nutes does it t	ake her to cycle 1500)m at the	
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12. A cy same	rclist covers 4 e rate?	45km in 3 hour	rs. How many mi	nutes does it ta	ake her to cycle 1500)m at the	
12. A cy same	relist covers 4 e rate? each line of v	45km in 3 hour	rs. How many mi	nutes does it ta mallest value	ake her to cycle 1500 and <u>underline</u> the la)m at the rgest.	
12. A cy same 13. For a)	relist covers 4 e rate? each line of v 2.506	45km in 3 hour values, put aci 2.56	rs. How many mi	nutes does it ta mallest value 2.056	ake her to cycle 1500 and <u>underline</u> the la 2.6)m at the rgest.	
12. A cy same 13. For a)	relist covers 4 e rate? each line of v 2.506	45km in 3 hour values, put action 2.56	rs. How many mi	nutes does it ta mallest value 2.056	ake her to cycle 1500 and <u>underline</u> the la 2.6)m at the rgest.	
12. A cy same 13. For a) b)	relist covers 4 e rate? each line of v 2.506 $\frac{1}{4}$	$\frac{145 \text{ km in 3 hour}}{2.56}$	rs. How many mi rcle around the su 2.006 $\frac{7}{8}$	nutes does it ta mallest value 2.056 $\frac{8}{9}$	ake her to cycle 1500 and <u>underline</u> the la 2.6 $\frac{1}{5}$)m at the rgest.	
12. A cy same 13. For a) b)	relist covers 4 e rate? each line of v 2.506 $\frac{1}{4}$ 9	$\frac{15 \text{ km in 3 hour}}{2.56}$	rs. How many mi rcle around the st 2.006 $\frac{7}{8}$ 3	nutes does it ta mallest value 2.056 $\frac{8}{9}$	ake her to cycle 1500 and <u>underline</u> the la 2.6 $\frac{1}{5}$ 53	m at the rgest.	
12. A cy same 13. For a) b) c)	relist covers 4 e rate? each line of v 2.506 $\frac{1}{4}$ $\frac{9}{20}$	$\frac{145 \text{ km in 3 hour}}{2.56}$ $\frac{6}{7}$ 0.55	rs. How many mi rcle around the su 2.006 $\frac{7}{8}$ $\frac{3}{5}$	nutes does it ta mallest value 2.056 $\frac{8}{9}$ 0.25	ake her to cycle 1500 and <u>underline</u> the la 2.6 $\frac{1}{5}$ $\frac{53}{100}$)m at the rgest.	
12. A cy same 13. For a) b) c) d)	relist covers 4 e rate? each line of v 2.506 $\frac{1}{4}$ $\frac{9}{20}$ 28cm	$\frac{145 \text{ km in 3 hour}}{2}$	rs. How many mi rcle around the su 2.006 $\frac{7}{8}$ $\frac{3}{5}$ 2600mm	nutes does it ta mallest value 2.056 $\frac{8}{9}$ 0.25 0.28m	ake her to cycle 1500 and <u>underline</u> the la 2.6 $\frac{1}{5}$ $\frac{53}{100}$ 25cm	m at the rgest.	







END OF SECTION A

SECTION B



24. An	octagonal spinner is shown:		
a)	For each statement determine whether it is TRUE (mark ✓) or FALSE (mark ×)		
	3 is the most likely score	3	
	3 and 4 are equally likely scores		
	Odd and even scores are equally likely	ε	
	A score of less than 2 is more likely than a score of 2 or more		
b)	John is designing a new spinner.		
	He wants it to have only the numbers 1, 2, 3 and 4 on it.	\bigwedge	
	He wants the probability of getting a 4 to be 0.5 .		
	He wants the probability of getting a 2 and the probability of getting a 3 to be equally likely.		
	He wants the probability of getting a 1 to be greater than the probability of getting a 3.		
	Enter the number(s) 1, 2, 3 or 4 into each of the 8 segments of the empty spinner.		(7)
25. Th	is calculation is correct: $396 \times 279 = 110484$	Use this result to answer the following:	
a) 3.96 x 2.79		
b) 110484 ÷ 279		
c	1104.84 ÷ 2.79		
d) 1104.84 ÷ 396		
			(4)

END OF EXAMINATION