Name	
Current School	

Mathematics Entrance exam for: 14+ (Sample) Time allowed: 45 minutes

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## Section A

Each of the following questions are worth 1 mark

Write your answers down the right-hand side

		Answer
1	Calculate 573 + 48	
2	Calculate 20 – 2 × 5 – 7	
3	Calculate $\frac{2}{3} + \frac{1}{6} - \frac{1}{12}$	

r		
6	Find the value of 2 <sup>5</sup>	
7		
7	Find the value of $4^{-2}$ $- = \frac{1}{-2}$	
8	Solve 2 + 7 = 11	
9	Solve 3( - 4) = 12	
10	At the bakers, iced buns cost 80p and cinnamon rolls cost £1.10. How much do 2 iced buns and 1 cinnamon roll cost?	

Each of the following questions are worth 2 marks Write your answers down the right-hand side

Answer11Factorise

14	Make the subject of the equation 5 + 3 = $\frac{-1}{2}$	
15	In a certain year, the value of a painting increased by 20%. If at the start of the year it was worth £2400, how much is it worth now?	

## Section B

Each of these multiple choice questions is worth 2 marks.

If you give an incorrect answer you will be deducted 1 mark.

Write your answer by putting the relevant letter on the right hand side.

		Answer
	Which statement is true?   A: 24 × 70 = 74 × 20   B: 24 × 70 = 48 × 35   C: 24 × 70 = 12 × 35   D: 24 × 70 = 48 × 140	
1		
	What is the value of the missing digit? 4714 × 28 = 1319?2 A: 4 B: 6 C: 2 D: 9	
2		
	A line parallel to $= 3 - 5$ passes through the point (2, 9). What is its equation? A: $= 9 + 3$ B: $= 3 + 3$ C: $= 3 + 9$ D: $= 3 + 7$	
3		

Write	
	$^{2} + 4 + 3$
In the form	
	( + ) <sup>2</sup> +

For the following questions you should show all of your working clearly.

Correct answers without working may not receive full marks.

6 Solve the following pairs of simultaneous equations

Å Å Å Å Å Å Å Å Å Å Å Å

7 Solve 3 + 2 4 - 5

[2]

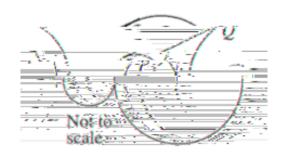
Å Å Å Å Å Å Å Å Å Å Å Å

[3]

8 A car travels at an average speed of 45 mph for 20 minutes. T <sup>10</sup> A cup of tea costs £ and coffee is £2  $-\frac{1}{4}$ , where is in pounds. If 3 teas and 2 coffees cost £5.80, find .

Å Å Å Å Å Å Å Å Å Å Å Å

11 Two circles with radii 1 cm and 4 cm touch. The point is on the smaller circle, is on [5] the larger circle and is a tangent to both circles.



Find the length

Å Å Å Å Å Å Å Å Å Å Å Å Å

End of Exam