



HAMPTON COURT HOUSE

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Surname:	First name:	
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Entrance Examination Year 7 (to be taken in Y6)

MATHEMATICS

Please read this information before the examination starts.

- This examination is 45 minutes long.
- There are 68 marks in this test.
- Calculators are not allowed.
- Show all your workings clearly. Credit may be awarded for a logical method even if the final answer is incorrect.
- Answer as many questions as you can in the time available. Do not worry if you cannot complete all the questions, as curricula vary from school to school.

1.	Wr You a.	Write down the answers to these questions. You may show your working or work them out in your head. a. 12×8						
			Answer:	[1]				
	b.	1.567×10						
			Answer:	[1]				
	C.	23405 ÷ 1000						
	đ.	0.87×100	Answer:	[1]				
			Answer:	[1]				
2.	Cal a.	culate 356 + 63						
	b.	867 – 251	Answer:	[1]				
	c.	875.25 + 2.6	Answer:	[1]				
	đ.	691.6 – 84.3	Answer:	[1]				
			Answer:	[1]				

3.	work out a. 256×3		
	b. 312 × 12	Answer:	[1]
4.	Work out a. 240 ÷ 4	Answer:	[1]
	b. 561351 ÷ 3	Answer:	[1]
5.	Calculate a. $2 \times 3 - 4$	Answer:	[2]
	b. 12 + 8 ÷ 4	Answer:	[2]
	c. $2^2 \times 3 - 4$	Answer:	[2]
	d. $14-6 \times 2$	Answer:	[2]
		Answer:	[2]

- 6. Calculate
 - a. $\frac{3}{4} \frac{2}{5}$

Answer: [2]

b. $\frac{5}{12} \times \frac{1}{4}$

Answer: [2]

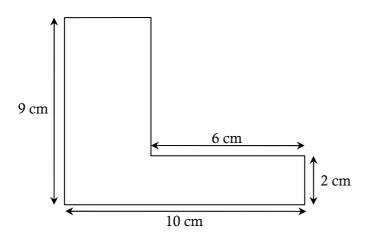
c. $\frac{2}{5} \div \frac{4}{10}$

Answer: [2]

d. $1\frac{1}{8} + \frac{1}{6}$

- Answer: [2]
- 7. Complete the following sequences:
 - a. 16 13 10 7 [2]
 - b. 1 4 9 16 [2]

8.



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Alta.	 	 	 	 	 	[I]

Complete the following table.

Fraction	%	Decima1
$\frac{1}{2}$		
	25%	
$\frac{1}{8}$		
	10%	
		0.2
$\frac{1}{3}$		

10	Calculate the following	,
10.	Carculate the following	5

a. $\frac{1}{5}$ of 75

b.	5	of 32
υ.	8	01 32

b.	$\frac{3}{8}$	of	32

_	17 50/	-6/2
C.	17.5%	01 03

11.	Calculate the following
11.	Carcarate the following

a.
$$0.4 \times 0.4$$

b.
$$45 \div 0.5$$

12.		plify if possible $a + 2a + 4$		
			Answer:	[1]
	b.	4b-b+5b		
			Answer:	[1]
	c.	2a + 2c + a + 4c		
			Answer:	[1]
	d.	$x \times 2x \times 4d$		
			Answer:	[1]
	e.	ab + 6b + 2ab		
	f.	$-3c \times 5ct + 2c \times 6$	Answer:	[1]
	1.	-3c × 3tt + 2c × 0	Answer:	Γ1 ⁻
				L
13.	Arr	ange these numbers in order, smallest first:	7.02, 7.12, 7.102, 7.012	
			Answer:	[2]
1.1	D	-i-1- i- 411i for I 1 4 Pii1		
14.	a.	niela is travelling from London to Birminghan The distance from London to Birminghan travelling to meters.	n is 189.5 km. Convert the distance she is	
			Answer:	[1]
	b.	The journey takes 2.25 hours, if Daniela learrives in Birmingham?	eaves London at 10.18 am, what time will she	
			Answer:	[1]

	End of E	Answe XAMINATI				[1]
	b. Write a formula for the number of mate	chsticks, <i>m</i>				
	Number of matchsticks					
	Number of squares	1	2	3	4	5
	a. Fill in the table [2]					
17.	Alan is making squares out of matchsticks					
		Answe	r:			[3]
16.	The supermarket had a sale on their bottles of lemonade. Instead of selling them for 80p per bottle, they sold them for 55p per bottle. They sold 200 bottles of lemonade in a week. How much less did they take by selling at the lower price?					
16	The gunermarket had a sale as their hettler			of colling t		
	b. I will pick a pencil that isn't red?	Answe	r:			[1]
	random (with my eyes shut), what is the pro a. I will pick out a green one?	bability tha	at			
	A box contains 2 blue pencils, 3 green pencils and 4 red pencils. If I pick a pencil from the box at random (with my eyes shut), what is the probability that					