

3rd July 2025

Dear Parent / Carer,

In order to give every student the opportunity to prepare for Maths at Fort Pitt, I have included a few optional activities that students may want to complete during the summer break. This includes a list of Year 7 Expected Prior Knowledge, some practice questions for the Year 7 baseline assessment and the answers to these questions so that you can feedback at home.

I would also like to take this opportunity to suggest the scientific calculator we think is best suited to your child as a year 7 student. We would like all students to have a scientific calculator at the start of year 7, and they will be needed in both Science and Maths lessons.

<u>Casio fx-85GTCW Black Scientific Calculator: Amazon.co.uk: Stationery & Office Supplies</u> – the standard model is approximately £12 on amazon.

<u>Casio fx-991CW Advanced Scientific Calculator (UK Version): Amazon.co.uk: Stationery & Office Supplies</u> - about £21 on amazon - the best one for GCSE and endorsed by Edexcel examination board.

Any of the colour options available is fine and you may be able to source this specific calculator cheaper elsewhere, which is perfectly acceptable. **Please do ensure your child's calculator is labelled.**

If your child already has a similar CASIO scientific calculator, there is no need to purchase another one, but it would be a good idea to check with the class teacher if in any doubt. Please do not hesitate to get in touch should you need any further assistance.

Yours faithfully

Mr R Woods Head of Mathematics







			Year 7 - Expected Prior Knowledge	R	Λ	G
			Can read, write and order whole numbers up to 10 000 000 and use the symbols	N	А	U
Р	1a	Place Value	=, <, >, ≤, ≥			
Р	1b		Can read, write and order numbers up to 3 decimal places			
Р	1c		Can round any whole number to the nearest 10, 100, 1000 etc			
Р	1d		Can round decimals to the nearest whole number and to one or two decimal places			
Р	1e		Can use place value to multiply whole numbers by 10, 100 or 1000			
Р	1 f		Can use place value to multiply decimal numbers by 10, 100 or 1000			
Р	1g		Can use place value to divide whole numbers by 10, 100 or 1000			
Р	1h		Can use place value to divide decimal numbers by 10, 100 or 1000			
Р	1i		Can use negative numbers in context and calculate intervals across zero			
Р	2a	Addition and Subtraction	Can recall and use complements 1-20 and 100			
Р	2b		Can use mental methods of computation for addition			
Р	2c		Can use mental methods of computation for subtraction			
Р	2d		Can use efficient written methods of addition including column addition			
Р	2e		Can use efficient written methods of subtraction including column subtraction			
Р	2f		Can add with decimals to two places (including money)			
Р	2g		Can subtract with decimals to two places (including money)			
Р	3a	Multiplication and Division	Can recall multiplication facts up to 12x12 and quickly derive corresponding division facts			
Р	3b		Can use tables and place value calculations with multiples of 10			
Р	3c		Can use mental methods of computation for multiplication			
Р	3d		Can use mental methods of computation for division			
Р	3e		Can use efficient written methods of multiplication including short and long multiplication			
Р	3f		Can use efficient written methods of division including short and long division			
Р	3g		Can multiply a simple decimal by a single digit			
Р	3h		Can identify multiples and common multiples			
Р	3i		Can identify factors and common factors			
Р	3j		Can recognise and describe square numbers			
Р	3k		Can recognise and identify prime numbers			
Р	4a	Solving Numerical Problems	Can solve problems choosing an appropriate mental or written strategy (all four operations)			
Р	4b		Can solve two step problems choosing appropriate operations (all four operations)			
Р	4c		Can interpret calculator display within context (all four operations)			
Р	4d		Can use inverse operations to find missing numbers, including decimals			
Р	4e		Can 'undo' a two step problem			







Р	4f		Can understand balancing including the meaning of the 'equals' sign		
Р	4g		Can understand the use of brackets and the order of operations		
Р	5a	Fractions Decimals and Percentages	Can use and understand fraction notation in representing parts of a whole and recognise equivalent fractions		
Р	5b		Can use common factors to simplify fractions		
Р	5c		Can compare and order fractions		
Р	5d		Can add and subtract fractions		
Р	5e		Can multiply fractions by whole numbers		
Р	5f		Can multiply pairs of fractions, writing the answer in its simplest form		
Р	5g		Can divide fractions by whole numbers		
Р	5h		Can divide a fraction by a fraction		
Р	5i		Can convert mixed numbers to improper fractions		
Р	5j		Can convert improper fractions to mixed numbers		
Р	5k		Can read and write decimal numbers as fractions		
Р	51		Can recognise approximate proportions of a whole number using percentages		
Р	5m		Can recognise equivalence between fractions, decimals and percentages		
Р	6a	Ratio and Proportion	Can understand, use and apply simple ratio to a real problem		
Р	6b		Can use and apply scale in real contexts		
Р	6c		Can understand and use the concept of proportion		
Р	6d		Can share a quantity in a given ratio		
Р	7a	Measurement	Can use, read, write and convert between standard units of length, mass, volume etc (eg mm,cm,m,km mg,g,kg)		
Р	7b		Can find the area of a triangle		
Р	7c		Can find the area of rectangles, squares and parallelograms		
Р	7d		Can find the volume of cubes and cuboids		
Р	8a	Properties of Shape	Can draw 2D shapes using given dimensions and angles		
Р	8b		Can recognise, describe and build simple 3D - shapes, including making nets		
Р	8c		Can find unknown angles in triangles and quadrilaterals		
Р	8d		Can recognise angles where they meet at a point or are on a straight line.		
Р	8e		Can describe positions on the full coordinate grid (all four quadrants)		
Р	8f		Can draw and translate simple shapes on the co-ordinate plane and reflect them in the axes.		
Р	9a	Statistics	Can interpret and construct pie charts, line graphs and pictograms		
Р	9b		Can calculate and interpret the mean as an average		
Р	9с		Can find the range of a set of data.		







Please Name:

Answer all the Questions in the Space Provided. Remember to show all of your working

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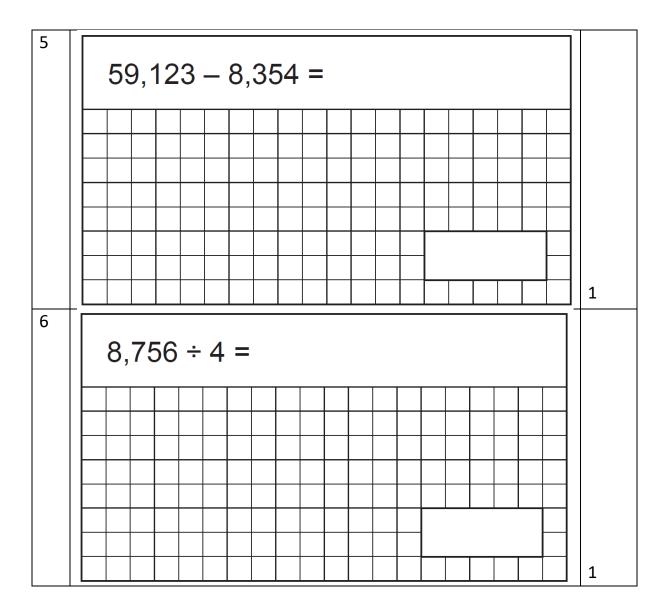


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14 Amy is making knitted Easter chicks. For each chick, she uses 0.35m of yellow wool. How many knitted Easter chicks can she make using a 4m ball of wool? Show your working. 2 15 The area of a hockey pitch is 5,027 square metres. A football pitch measures 115 metres long and 89 metres wide. How much larger is the area of the football pitch than the area of the hockey pitch? Show your working. m^2 2



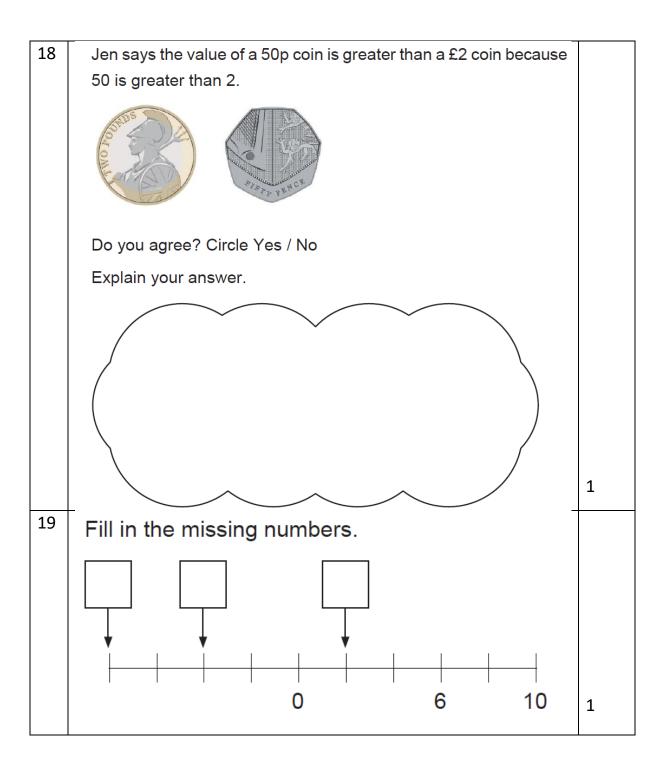




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	Fill in the missing digits to make this fraction number sentence correct. 2 10																						
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22	Here is a sorting in each space.	diagram. Write	e a number bet	ween 100 and 200	
		even	not even		
	a square number				
	not a square number				2
23	Use each of these below correctly.	_	to complete the c	ealculation	
	1 🗀 +	_ =	2		1
24	Find the mean of	this set of data.			
	10 15.5 8	6.5 5			
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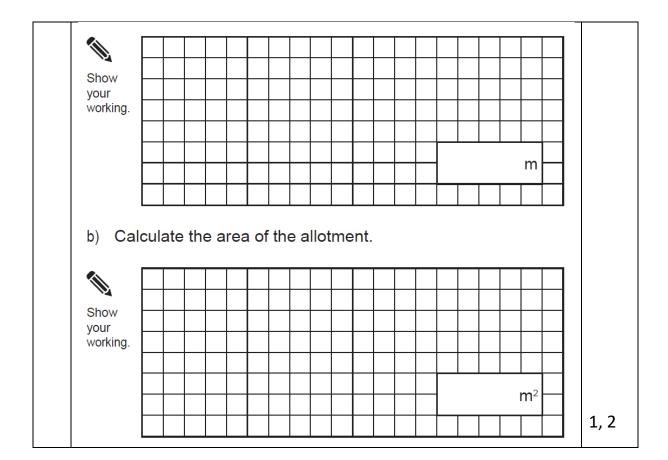


B stands for a multiple of 3. C stands for a different multiple of 3. 25 Tick (4) each statement according to whether it is always true, sometimes true or never true. Sometimes Always Never true true true The sum of B and C is a multiple of 6 The difference between B and C is a multiple of 3 1 In a pattern, the ratio of black tiles to white tiles is 3:5 26 In total we have 400 tiles. How many black tiles and how many white tiles do we have? black tiles white tiles 1 27 Below is a drawing of Sita's allotment. 10m 9m 30m 7m a) Calculate the perimeter of the allotment.













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You may now choose to RAG assess the following skills (Red – Not Confident, Amber – partly confident, Green – Very confident) and then comment on your attainment in the box below:

Qu	Skill	Ref	R	Α	G
1	Can add and subtract fractions	P5d			
2	Can use efficient written methods of	P3e			
	multiplication including short and long				
	multiplication				
3	Can add and subtract fractions	P5d			
4	Can multiply a simple decimal by a single digit	P3g			
5	Can use efficient written methods of	P2e			
	subtraction including column subtraction				
6	Can use efficient written methods of division	P3f			
	including short and long division				
7	Can use efficient written methods of	P3e			
	multiplication including short and long				
	multiplication				
8	Can use efficient written methods of division	P3f			
	including short and long division				
9	Can use efficient written methods of	P2e/4d			
	subtraction including column subtraction/ Can				
	use inverse operations to find missing				
	numbers, including decimals				
10	Can read, write and order whole numbers up	P1a			
	to 10 000 000 and use the symbols =, $<$, $>$, \le , \ge				
11	Can identify multiples and common multiples	P3h			
12	Can use efficient written methods of	P3e/4a			
	multiplication including short and long				
	multiplication				







13	Can draw and translate simple shapes on the	P8f	
15	Can draw and translate simple shapes on the	Pol	
	co-ordinate plane and reflect them in the		
1.1	axes.	P4a	
14	Can solve problems choosing an appropriate	P4d	
	mental or written strategy (all four		
1 -	operations)	D7.	
15	Can find the area of rectangles, squares and	P7c	
1.0	parallelograms		
16	Can multiply fractions by whole numbers	P5e	
17	Can use and understand fraction notation in	P5a/5d	
	representing parts of a whole and recognise		
	equivalent fractions/ Can add and subtract		
	fractions		
18	Understand money	X	
19	Can use negative numbers in context and	P1i	
	calculate intervals across zero		
20	Can find unknown angles in triangles and	P8c	
	quadrilaterals		
21	Can use efficient written methods of division	P3f	
	including short and long division		
22	Can recognise and describe square numbers/	P3j/3h	
	Can identify multiples and common multiples		
23	Can use and understand fraction notation in	P5a/5d	
	representing parts of a whole and recognise		
	equivalent fractions/ Can add and subtract		
	fractions		
24	Can calculate and interpret the mean as an	P9b	
	average		
25	Can identify multiples and common multiples	P3h	
26	Can share a quantity in a given ratio	P6d	
27	Can find the area of rectangles, squares and	P7c	
	parallelograms		
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Solutions to Baseline Practise questions

1 13/8 2 736 3 4 4 29.82 5 50769 6 2189 7 308208 8 99 9 720, 140, 70 140 70 10 Eight hundred and seven 11 84 12 104814
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4 29.82 5 50769 6 2189 7 308208 8 99 9 720, 140, 70 140 70 10 Eight hundred and seven 11 84
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12 104814
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14 11
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16 6250
17 8 6 6
18 no 50p, 200p
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20 x x







21	546		
22	144	121	
	102	101	
24	9		
25	Always True	Always True	
26	150 Black	250 White	
27	perimeter = 112m	area = 370m^2	



