Name	
Form	
Teacher	

Maths Homework Booklet Year 7e Autumn

Title	Hand in date	Score achieved
Sequences		
Algebraic notation		
Equality and equivalence		
Place value		
Fraction, decimal and percentage (FDP)		
Mixed A		
Mixed B		
Mixed C		
Mixed D		
Mixed E		
Mixed F		
Mixed G		

•	Year 7 Sequences Name Image: I	I mark	Image: sequence in the sequence? Image: sequence in the seque	I mark
	 Sind the next two terms in these geometric sequences. 5, 10, 20, 9000, 900, 90, This pattern repeats every three terms as shown. 	2 marks	 Find the missing terms in these linear sequences. 3, 9 , 3, 9 ① Find the next two terms in this sequence. 3. 6. 10, 15 ① These numbers make up two linear sequences. 1 3 4 5 7 7 10 13 What are the two linear sequences? 1st,,, 	2 marks
		l mark	Total marks	



Year 7	White Rose Moths	3 Solve these equations.	
Equality and Equivalence		<i>a</i> + 37 = 83	
Name	-	24 = b - 7.6	l mark
Complete the fact family for this bar model.		$\frac{c}{9} = 40$ $b = $	l mark
12		60 = 5 <i>d</i>	l mark
8 + 4 = 12	2 marks	d =	L mark
2 Complete the fact family for this bar model. 28		4 Make up an equation which has solution $x = 7$	
7 7 7 7			
4 × 7 = 28	2 marks		l mark
Sam thinks of a number. She subtracts 87 from his number and gets the		8 Simplify these expressions by collecting like terms.	
answer 254 Show this information as an equation.		4 <i>x</i> + 3 <i>x</i> - 2 <i>x</i>	
Solve the equation to find Sam's number.	l mark	5c + 3d + 2d + 8d	
		$8t + 2t^2 - 3t + 2t^2$ An expression has four terms.	3 marks
6 Sort the following into two sets of like terms.	l mark	When simplified, the expression becomes $6x + 3$ What might the expression be?	
5x -5 x 5 2x -5x			
Set I Set 2	2 marks	Tim says that the following expressions are equivalent to each other. 2n+5 $5+2n$	
Tick the expressions that are equivalent to 5b.	2 1141 12	Is Tim correct? Explain your answer.	
$\boxed{5+b} \qquad \boxed{3b+2b} \qquad \boxed{6b-b}$			
$5 \times b \qquad b+b+b+b \qquad b \div 5$			L mark

Year 7 Place Value Name Vrite down a five-digit whole number that has a 4 in the thousands place and 7 in the tens place.	White Rese Maths	 The ages of four children are 14, 12, 15, and 17 Work out the range of the ages of the four children. Work out the median of the ages of the four children. Kai represents a number using place value counters. Xai represents a number using place value counters. Tens Ones Tenths Hundredths Ones Tenths Hundredths
Complete the statements using <, > or = 2.5 million $250\ 000$ 0.351 0.36 6 hundredths $\frac{6}{10}$	l mark	Kai says his number rounded to the nearest whole number is 35 I mar Is Kai correct? Give a reason for your answer. Image: Correct for the nearest sector of the nearest sector for your answer. Round Kai's number to one significant figure. Image: Correct for the nearest sector for your answer.
 Oraw arrows to the number line to show the position of each of these numbers. 150 75 100 70 100 200 Draw an arrow onto this number line to show the approximate position of 0.35 100 Write down the value of the 5 in each of these numbers. 8.154 	2 marks	 Here are five number cards. 5 8 ? 3 3 The median of the numbers is 5 The range of the numbers is 5 There is one missing number. Write down one possible value of the missing number. Explain why the missing number couldn't be 9 Fay thinks that one billion is the same as 10² × 10⁷ Joe thinks that one billion is the same as 10³ × 10⁶ Explain why they are both correct.
751 602 I 567 324 896	3 marks	Put these numbers in ascending order 7 x 10 ² 2 x 10 ⁷ 7 x 10 ⁻² 2 x 10 ⁻⁷ I mar Total marks



Mixed	А
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1. Multiply fifteen by ten.	11. Divide ninety by three.
2. What temperature is 10 degrees less than 6 degrees Celsius?	12. 7 x 10 = 82 - ?
3. Write down the next two numbers. 3,6,9	13. Subtract twenty-one from one hundred.
4. What is one-fifth of twenty-five?	14. What must be added to eighty-three to make one hundred?
5. What is three times three added to four times four?	15. One orange costs nineteen pence. How much will three oranges cost?
6. What are the next two numbers? 3,7,11,15	16. Five times a number is two hundred. What is the number?
7. What is the square root of sixty-four?	17. 20 + =100 ÷ 4
8. Two factors of 24 add up to 11. What are they?	18. (5 x 6) + (4 x 2)=
9. How many metres are there in four and a half kilometres?	19. Divide forty-eight by eight
10. Which is the smallest number. 2.07 2.7 2.4 2 2.04	20. What is thirty-one multiplied by seven?

Mixed B

1. Multiply twenty two by ten.	11. Divide 120 by 3.
2. Write two hundred and thirteen to the nearest ten.	12. 7 x 6 = 30 + ?
3. What temperature is 6 degrees less than 4 degrees Celsius?	13. Subtract thirty-two from sixty-five.
4. Write down the next two numbers. 22 , 27 , 32	14. What must be added to eighty-three to make one hundred?
5. What is one-third of twenty-four?	15. One orange costs sixteen pence. How much will four oranges cost?
6. What are the next two numbers? 26, 20, 14, 8,	16. 14 += 80 ÷ 4
7. What is seven squared?	17. (16÷4) x (7–4)=
8. Two factors of 28 add up to 9. What are they?	18. What is 42 divided by 6 ?
9. Which is the smallest number. 13 0.13 1.03 0.103 1.3	19. What number is half-way between thirteen and thirty-one?
10. What is 3.4 multiplied by 100?	20. The coordinates of a square are (7,2), (7,7), (2,7) and (?,?)

Mixed C

1. What is one thousand minus one	11. Divide 120 by 4.
hundred and one?	
2. What temperature is 6 degrees less	12. 9 x 6 = 30 + ?
3. Write down the next two numbers.	13. Subtract twenty-four from sixty-five.
2,3,5,8,12	
4. What is one-fifth of thirty-five?	14. What must be added to seventy-six
	to make one hundred?
E. What is the product of 6 and 82	15. One erange costs fifteen pence
	How much will three oranges cost?
6. What are the next two numbers?	16. $24 + = 120 \div 3$
0.3 , 0.7 , 1.1 , 1.5	
7. Two factors of 30 add up to 9. What	17. (28÷4) x (7−2)=
are they?	
8. Multiply 5.7 by 100.	18. What is 5.6 divided by 8 ?
9. Which numbers are greater than	19. What number is half-way between
	fifteen and thirty-seven?
0.7 0.3 0.9 0.00 0.01	
10. What is five tenths added to three	20. The coordinates of a square are
	(1,8), (7,8), (7,2) and (?,?)

Mixed D

1. What is one thousand subtract three hundred and fifty?	11. Divide 150 by 3.
nunureu anu nity:	
2. What temperature is 5 degrees less than 4 degrees Celsius?	12. $7 \times 5 = 80 - ?$
3. Write down the next two numbers.	13. Subtract seventy-eight from one hundred.
31 , 26 , 21	
4. What is one-quarter of twenty?	14. How many minutes are there in two
	hours?
5. What is five times three added to	15. What is the total of 162 and 253 ?
two times four?	
6. What are the missing numbers?	16 10 = 90 ÷ 3
?, 3.2, 2.4, ?, 0.8	
7. What is 12 squared?	17. $(6 \times 3) + (? - 1) = 26$
8. Divide 57 by 100.	18. What is the product of 0.9 and 6?
9. Which numbers are greater than 0.6	19. What number is half-way between
? 0.39 0.07 0.8 0.69 0.17	12 and 34?
10. What is ⅓ added to %?	20. The coordinates of a square are
	(3,3), (3,9), (9,9) and (?,?)

Mixed E

1. Divide six hundred and eighty by ten.	11. Divide 180 by 6.
2. What temperature is 6 degrees more than -2 degrees Celsius?	12. x 6 = 60 - 36
3. Write down the next two numbers. 42 , 45 , 48,	13. Subtract thirty-four from seventy- one.
4. What is one-sixth of forty-two?	14. What must be added to fifty-six to make one hundred?
5. What is five times four added to six times three?	15. One orange costs twenty-three pence. How much will four oranges cost?
6. What are the next two numbers? 0.06 , 0.12 , 0.18	16 15 = 75 ÷ 3
7. What is the square root of eighty- one?	17. (36 ÷ 6) + (4 x 3)=
8. Which is the smallest number. 0.5 0.17 0.07 1.7 0.071	18. Divide thirty-two by eight
9. What is one-quarter added to three eighths?	19. What number is half-way between twenty-one and fifty-three?
10. 8 biscuits cost 24p altogether. How much do 5 biscuits cost?	20. The coordinates of a square are (0,6), (0,0), (6,0) and (?,?)

Mixed F

1. What is one thousand minus three hundred and one?	11. Divide 180 by 6.
2. What temperature is 10 degrees less than 6 degrees Celsius?	12. 5 x 6 = 90 ÷ ?
3. Write down the next two numbers. 101,95,89,83	13. Subtract twenty-six from seventy- nine.
4. What is one-seventh of forty-nine?	14. What must be added to thirty-six to make one hundred?
5. What is three times six added to seven times five?	15. One orange costs nineteen pence. How much will three oranges cost?
6. What are the next two numbers? -19 , -15 , -11	16 + 15 = 120 ÷ 4
7. Two factors of 20 add up to 6. What are they?	17. (8 x 4) - (7 x 3) =
8. Multiply 1.4 by 100.	18. What is 56 divided by 8 ?
9. Which is the biggest number. 1.13 0.13 1.03 0.103 1.3	19. What number is half-way between six and twenty-four?
10. Five sweets cost 30p altogether. How much do seven sweets cost?	20. The coordinates of a square are (3,2), (8,2), (8,7) and (?,?)

Mixed G

1. What number is two less than three hundred and one?	11. Divide 240 by 6.
2. What temperature is 9 degrees less than 5 degrees Celsius?	12. 5 x 4 = 80 ÷ ?
3. Write down the next two numbers. 41, 36, 31, 26,,	13. Subtract 35 from 52.
4. What is one-sixth of forty-eight?	14. What must be added to 56 to make one hundred?
5. What is 3 x 4 added to 6 x 5 ?	15. One orange costs 16p. How much will three oranges cost?
6. What are the next two numbers? 2.4, 2.6, 2.8,,	16. 20 - = 28 ÷ 4
7. Two factors of 16 add up to 9. What are they?	17. (5 x 3) + (18 ÷ 2) =
8. Divide 510 by 10	18. What is the sum of 24 and 12 divided by 9?
9. Which is the biggest number? 2.07 2.24 2.4 2 2.04	19. What number is half-way between twenty-three and fifty-one?
10. 5 biscuits cost 30p altogether. How much do 7 biscuits cost?	20. The coordinates of a square are (-1,-1), (3,-1), (3,3) and (?,?)