Name:	Date:	Pre GCSE Maths 2004/5				
		Homework 6. Decimals.				
	DO NOT	use a calc	ulator.			
You <u>must show</u> any working. Use the back of any sheet if you need more room.						
Curriculum links	Decimal place va	alue		Marks		
N2/L1.4 Read, write, order and compare decimals up to three decimal places (a) understand that the position of a digit signifies its value (b) know that the decimal point separates whole numbers from decimal fractions (c) know what each digit represents.	 1a. List these size 1.3 1.03 1.03 1b. List these size 5.64 6.45 5.0 1a) 	x numbers ir 33 3.01 1 x numbers ir 06 6.07 5 1	a descending order 1.33 0.003 a ascending order 5.1 6.007 (b)	1		
digit represents, including the use of zero as a place holder				1		
N2/L2.5 Order, approximate and compare decimals when solving practical problems	 2a. Write this decimal in words: 9.081 2b. Write this number as a decimal: One bundred and 					
(a) understand place value (whole nos. and up to 3 decimal places)	ninety thousand, four hundred and seven point three, zero, one.					
(b) understand that decimals can be rounded to different	 3. Write the correct symbol (< or >) between the pairs of numbers. 					
degrees of accuracy, depending on purpose	11.096 1	1.209	0.115 0.7	1		
		4.09 4	4.021	1		
	 4. What does th 12.57 	e 7 represe 0	nt in these numbers: 2.7611	1 1		
	 5a. What is the largest number you can make using all five digits and the decimal point. 2 2 5 9 3 • 					
	 > 5b. What is the smallest number you can make using all five digits and the decimal point. 0 5 7 4 0 • 					
Tutor's comments				10		

Curriculum link	Rounding, equivalencies, x and ÷ by 10, 100.			
N2/L2.5 Order, approximate and compare decimals when solving practical problems (a) understand place	 ▶ 6. Round these decimals to the nearest whole number 5.49 14.098 31.75 	1/2 1/2		
value (whole nos. & up to 3 decimal places)		1⁄2		
(b) understand that decimals can be rounded to different degrees of accuracy, depending on purpose	 7. Round these numbers to one decimal place 5.49 14.098 31.44 	1/2 1/2		
N2/L1.6 Multiply and divide decimals by 10, 100		1/2 1/2		
(a) understand place value (whole nos. and to two-decimal places)	 8. Round these numbers to two decimal places 5.491 14.098 31.452 	1/2		
N2/L1.7 approximate	5.471 14.070 51.452	1/2		
rounding to a whole number or two decimal places		1⁄2		
(a) know what is meant by decimal places	 9. Change these decimals to fractions or mixed numbers and simplify if possible. 	1 1⁄2		
N2/L1.3 Recognise equivalencies between common fractions, decimals and percentages and know how you use these to find part of whole number quantities. (a) know common fraction equivalents e.g. quarters, fifths, tenths.	1.4 0.7 0.55 0.28 1.27	1 1 1		
	▶ 10. Change these fractions to decimals 3/10 92/100 2/5 1/4	½½ 1 1		
N2/L2.2 Identify equivalencies	▶ 11. Multiply these numbers by 10.			
between fractions, decimals and	0.9 0.81 1.23 10.089	1/2 1/2		
percentages (a) understand that fractions, decimals and %s are different ways		1/2 1/2		
same thing (c) know that decimal	▶ 12. Divide these numbers by 100			
fractions are expressed in tenths, hundredths, thousandths	1.9 888.1 21.23 0.089	1/2 1/2 1/2 1/2		
Tutor's comments		16		

Curriculum link	Add, subtract, multiply, divide	decimals.	Marks		
N2/L1.5 Add, subtract, multiply, divide decimals up to	▶ 13a. Estimate an answer to 10.4 +	4.561 + 34.06	1⁄2		
2 places (a) know and use strategies to check answers e.g. approximate	▶ 13b. Now work out the answer exactly.				
whole numbers	▶ 14a. £40.05 - £33.16 =				
subtract, multiply, divide decimals up to 3 places (a) know and use strategies to check answers e q	14b. How could you check your answer?				
approximate calculations using whole numbers	▶ 15. €345.63 - €79.81 =				
N2/L2.5 Order, approximate and compare decimals when solving practical problems			1		
(a) understand place value (whole nos. and up to 3 decimal places)	▶ 16a. 78.9 x 16 =		1		
(b) understand that decimals can be rounded to different degrees of accuracy,	▶ 16b. How could you check your answer?				
	▶ 17a. Estimate an answer to 5.6 x 1.7 =				
	17b. Now work out the answer exactly				
			1		
	▶ 18a. 42.189 ÷ 7 =				
	18b. How could you check your answer?				
	 19a. Estimate an answer to 405 ÷ 0.9 = 19b. Now work it out exactly 				
Tutor's comments:		Total Score 36	10		

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ANSWER SHEET

Pre GCSE Maths 2004/5

Homework 6. Decimals.

DO NOT use a calculator.

You <u>must show</u> any working. Use the back of any sheet if you need more room.

Curriculum links	Decimal place value	Marks		
N2/L1.4 Read, write, order and compare decimals up to three decimal places (a) understand that the position of a digit signifies its value (b) know that the decimal point separates whole numbers from decimal fractions (c) know what each digit represents, including the use of zero as a place holder	 ▶ 1a. List these six numbers in descending order 1.3 1.03 1.033 3.01 1.33 0.003 ▶ 1b. List these six numbers in ascending order 5.64 6.45 5.06 6.07 5.1 6.007 1a) 3.01 1b) 5.06 1.33 5.1 1.3 5.64 	1		
	1.033 6.007 1.03 6.07 0.003 6.45	1		
N2/L2.5 Order, approximate and compare decimals when solving practical problems (a) understand place value (whole nos. and up to 3 decimal places)	 2a. Write this decimal in words: 9.081 nine point zero (or nought) eight one 2b. Write this number as a decimal: One bundred and 			
	ninety thousand, four hundred and seven point three, zero, one. 190 407.301			
(b) understand that decimals can be rounded to different degrees of accuracy.	 3. Write the correct symbol (< or >) between the pairs of numbers. 			
depending on purpose	11.096 < 11.209 0.115 < 0.7	1		
	4.09 > 4.021	1		
	 What does the 7 represent in these numbers: 12.570 (seven) hundredths 2.7611 (seven) tenths 	1 1		
	 Sa. What is the largest number you can make using all five digits and the decimal point. 2 2 5 9 3 • 9532.2 	1		
	 ▶ 5b. What is the smallest number you can make using all five digits and the decimal point. 0 5 7 4 0 ● 0.0457 	1		
Tutor's comments		10		

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ANSWER SHEET	abingdon≩witney college					
Curriculum link	Rounding, equ	ivalencies,	x and ÷ by	10, 100.	Marks	
N2/L2.5 Order, approximate and compare decimals when solving practical problems (a) understand place value (whole nos. & up to 3 decimal places)	▶ 6. Round thes 5.49	e decimals to 14.098	the nearest 31.75	whole number	1/2	
	5	14	32		1/2	
					1⁄2	
decimals can be	▶ 7. Round thes	e numbers to	one decimal	place		
degrees of accuracy,	5.49	14.098	31.44		1/2	
aepending on purpose	5.49	14.1	31.4		1/2	
N2/L1.6 Multiply and divide decimals by 10, 100					1⁄2	
value (whole nos. and	▶ 8. Round thes	e numbers to	two decimal	olaces		
N2/L4 7 approximate	5.491	14.098	31.452	2	1/2	
decimals by	5.49	14.10	31.45		1/2	
number or two decimal places					1⁄2	
(a) know what is meant by decimal	▶ 9. Change the	ese decimals t	o fractions o	mixed numbers	1	
places	and simplify i	f possible.			1/2	
N2/L1.3 Recognise equivalencies	1.4 0.	7 0.55	0.28	1.27	1	
between common fractions, decimals and percentages and	1 2/5 7.	/10 11/2	20 7/25	1 27/100	1 1	
know how you use these to find part of	▶ 10. Change th	ese fractions	to decimals			
whole number quantities.	3/10	92/100	2/5	1⁄4	16 16	
(a) know common fraction equivalents e.g.	0.3	0.92	0.4	0.25	1 1	
N2/L2.2 Identify						
equivalencies between fractions,	▶ 11. Multiply th	nese numbers	by 10.			
decimals and percentages	0.9	0.81	1.23	10.089	1/2 1/2	
(a) understand that fractions, decimals and %s are different ways	9	8.1	12.3	100.89	1/2 1/2	
of expressing the same thing	▶ 12. Divide these numbers by 100					
(c) know that decimal fractions are	1.9	888.1	21.23	0.089	16 16	
expressed in tenths, hundredths.	0.019	8.881	0.2123	0.00089	16 16	
thousandths					72 72	
Tutor's						
comments					16	

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ANSWER SHEET

				0011	300118 11111	09000	690
	Add, s	subtract,	multiply,	divide	decimals.		Marks
N2/L1.5 Add, subtract, multiply, divide decimals up to	▶ 13a. Estimate an answer to 10.4 + 4.561 + 34.06 For example: 10 + 5 + 34 = 49				1⁄2		
2 places (a) know and use	▶ 13b. Now work out the answer exactly.						
strategies to check	49.021 ((column ad	dition)				I
approximate							
whole numbers	▶ 14a.	£40.05 - f	233.16 =				
N2/L2.6 Add,	£6.89 (long subtra	action or me	entally)			1
subtract, multiply, divide decimals up to		-					
3 places	▶ 14b. How could you check your answer?					1/2	
strategies to check	£6.89 +	£33.16 =	£40.05 (inv	erse ope	eration)		
approximate	▶ 15.€	345.63 – €	79.81 =				
whole numbers	€265.82	2 (long sub	traction)				1
N2/L2.5 Order,							I
approximate and compare decimals							
when solving practical problems	▶ 16a.	78.9 x 16	=				
(a) understand place	1262.4 (any efficient written method - long multiplication,			1			
up to 3 decimal	grid method, lattice method, etc.)						
(b) understand that	For the second you check your answer r			1/2			
decimals can be rounded to different							
degrees of accuracy, depending on purpose	▶ 17a.	Estimate a	an answer to	5.6 x 1	.7 =		
	For example 6 X 2 = 12			1/2			
	 I/b. Now work out the answer exactly 52 (any officient written method, long multiplication) 						
	arid method, lattice method, etc.)				1		
	gha methoa, lattice methoa, etc.y						
	▶ 18a. 42.189 ÷ 7 =						
	6.027 (long or short division)				1		
	N 18b How could you check your answer?				1/		
	$6027 \times 7 = 42189$				72		
	$0.027 \times 7 = 42.107$						
	▶ 19a. Estimate an answer to 405 ÷ 0.9 =						
	For example 400 ÷ 1 = 400				1/2		
	▶ 19b. Now work it out exactly						
	450 (short division)			1			
Tutor's					_		
comments:					Total Score	36	10