π Level 2 Functional Skills Maths Knowledge Organiser			
Maths Hub Module 6 – Decimals			Usually Non Calculator
Decimal Place4. 32567The first numberafter the decimal4th number after the	Multiplying and Dividing decimals by 10 and 100 When multiplying or dividing decimals by 10 or 100, think about moving the decimal point		
	7.324	$4 \times 10 = 73.24$	$7.324 \div 10 = 0.7324$
point is called the first decimal place. decimal point so 6 is in the 4 th decimal place.	deci	$n \times 10$, move the mal point to the one place.	When \div 10, move the decimal point to the left one place.
Subtraction and Addition The method for adding and subtracting decimals is the same as when you add and subtract whole	Move 2 places when multiplying or dividing by 100.		
numbers. Just make sure your decimal points line up. $6.22 + 32.67$	Comparing Decimals Compare the size of decimals but looking at the numbers in		
6.2 2	the decimal places. 0.3218 0.32099		
$+ 3 2 \cdot 6 7$	 Compare the whole number part. They are both zero, so move to the first decimal place. Compare the numbers in the 1st decimal place. They are the same so move to the 2nd decimal place. Compare the numbers in the 2nd decimal place. They are the same so move to the 3rd decimal place. Compare the numbers in the 3rd decimal place. 		
6.22 + 32.67 = 38.89			
53.25 – 41.17			
$5 3 2^{1} 5$			
- 4 2.1 7			
<u> </u>			e 3 rd decimal place, whereas
53.25 - 41.17 = 11.08	large		lecimal place, so 0.3218 is
Multiplying Decimals		Dividing Decimals	
6. 3 × 5. 9 When multiplying decimals. Always start		155.45 ÷ 0.2	×10 155.45 1554.5
off with an approximation:		$155.45 \div 0.5$	$2 = \frac{155.45}{0.2_{\times 10}} = \frac{1554.5}{2}$
$6.3 \times 5.9 \approx 6 \times 6 = 36$		0 7	7 7 2 5
Then multiply the numbers together without the decimal points. 63×59			$5^{1}5^{1}4 \cdot 5^{1}0$
6 3 × 5 9		-	$155.45 \div 0.2 = 777.25$
5 6 7			
+ 3 1 5 0			decimal, multiply the denominator by 10 to leave
3 7 1 7 1		a whole numbe	r in the denominator.
Given our estimate was 36, and we have wo out $65 \times 59 = 3717$, we can compare these		Once you have of 'bus stop metho	done that you can use the od'
say that our answer is 37.17.			

 $6.3 \times 5.9 = 37.17$