



St John Fisher RC Primary School

Year 6 Maths Knowledge Organiser

Spring One - Block 3 – Decimals (1)

Objectives	Teacher
• I can identify the value of each digit up to 3 decimal places.	
• I can solve problems by using rounding to a specified degree of accuracy.	
• I can solve addition and subtraction multi-step problems.	

Place Value

Tens	Ones	tenths	hundredths	thousandths
	1 1 1	0.1 0.1 0.1 0.1	0.01 0.01	0.001 0.001 0.001 0.001 0.001 0.001

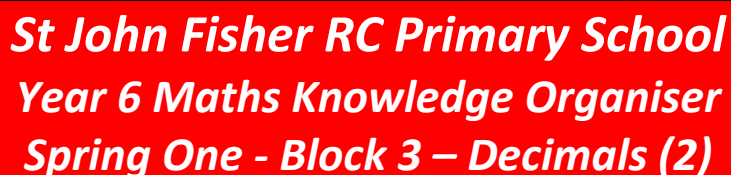
$3 + \frac{4}{10} + \frac{2}{100} + \frac{6}{1000}$
↔
3.426
↔
 $3 + 0.4 + 0.02 + 0.006$

1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

Key Vocabulary	
Decimal Place	The position of a digit to the right of the decimal place.
tenth	Each of ten equal parts of a whole amount. Equal to 1 decimal place.
hundredth	Each of one hundred equal parts of a whole amount. Equal to 2 decimal places.
thousandth	Each of one thousand equal parts of a whole amount. Equal to 3 decimal places.
Rounding	To round an amount to the nearest specified amount (e.g. rounding a decimal to the nearest whole number).
Addition	The process of combining amounts to find a sum. Addend + Addend = Sum
Subtraction	The process of removing one amount from another. Subtrahend – Minuend = Difference

Sentence Stems	
There are ____ tenths, ____ hundredths and ____ thousandths	So ____ rounded to the nearest ____ is ____
There are ____ in ____	____ added to ____ is equal to ____

Assessment



Objectives	Teacher
<ul style="list-style-type: none"> I can multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places. 	
<ul style="list-style-type: none"> I can multiply a 1-digit number with up to 2 decimal places by whole numbers. 	
<ul style="list-style-type: none"> I can use division where the answer has up to 2 decimal places. 	
<ul style="list-style-type: none"> I can solve problems using addition, subtraction, multiplication and division. 	

Multiplying & Dividing by 10, 100 and 1,000

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		2	0	8		
		2	0	8		
			2	0	8	

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		4	3	5		
		4	3	5		
			4	3	5	

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		1	1	3	5	1
		1	1	3	5	1
			1	3	5	1

Multiplying & Dividing

M9d: Column Multiplication

100 10 1 $\frac{1}{10}$

4 7 . 2

$\times 3$

1 4 1 . 6

2

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M9e: Column Multiplication

10 1 $\frac{1}{10}$ $\frac{1}{100}$

7 . 3 8

$\times 6$

4 4 . 2 8

4 2 4

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Key Vocabulary

Decimal Place	The position of a digit to the right of the decimal place.
tenth	Each of ten equal parts of a whole amount. Equal to 1 decimal place.
hundredth	Each of one hundred equal parts of a whole amount. Equal to 2 decimal places.
thousandth	Each of one thousand equal parts of a whole amount. Equal to 3 decimal places.
Rounding	To round an amount to the nearest specified amount (e.g. rounding a decimal to the nearest whole number).
Multiplication	The process of combining amounts to find a product. Multiplicand x Multiplier = Product.
Division	The process of sharing an amount into equal parts. Dividend ÷ Divisor = Quotient.
Operation	The processes of addition, subtraction, multiplication and division.

Sentence Stems

_____ is 10/100/1,000 times the size of _____	To multiply by _____, I move the digits _____ to the _____
To divide by _____, I move the digits _____ to the _____	_____ multiplied/divided by _____ is _____

Assessment