Varied Fluency Step 1: Three Decimal Places

National Curriculum Objectives:

Mathematics Year 6: (6F9a) <u>Identify the value of each digit in numbers given to three</u> decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places

Mathematics Year 6: (6F10) <u>Solve problems which require answers to be rounded to specified degrees of accuracy</u>

Differentiation:

Developing Questions to support understanding place value in numbers with up to 3 decimal places, describing columns in words and digits. Problems do not include conversion. Representations of counters in place value charts.

Expected Questions to support understanding place value in numbers with 3 decimal places, describing columns in words and digits. Some problems require conversion. Representations of counters or base ten in place value charts.

Greater Depth Questions to support understanding place value in numbers with 3 decimal places, describing columns in words and digits. Problems require conversion. Representations of counters, base ten or place value charts.

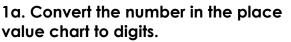
More resources which follow the same small steps as White Rose.

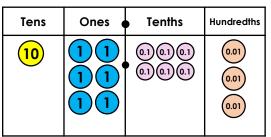
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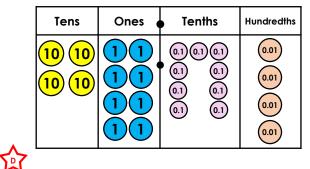
Three Decimal Places

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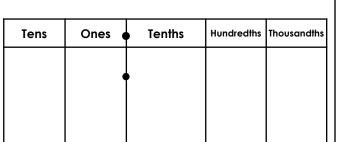


1b. Convert the number in the place value chart to digits.

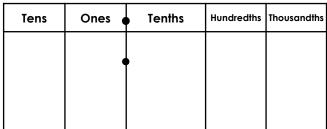


合

2a. Represent a number which has nine ones, five tenths, six hundredths and two thousandths.



2b. Represent a number which has five tens, two ones, six tenths, eight hundredths and five thousandths.



合



3a. In which number does the digit 7 have the lowest value?

<u>7</u>.62

1.0<u>7</u>

0.<u>7</u>3

3b. In which number does the digit 2 have the highest value?

4b. Use the digit cards to create the

greatest and smallest number possible.

1<u>2</u>.03

543.0<mark>2</mark>

29.34

企

4a. Use the digit cards to create the greatest and smallest number possible.

2

Tens

3

Ones

4

Tenths

1

Hundredths

8

7

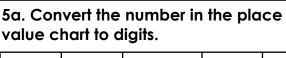
Tens	Ones	Tenths	Hundredths
	•		

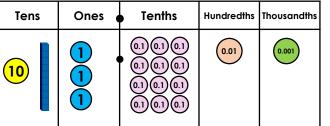




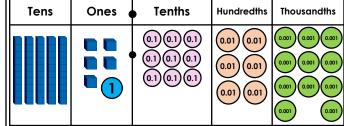
Three Decimal Places

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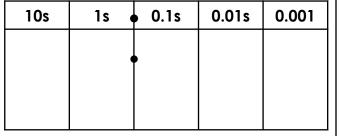
5b. Convert the number in the place value chart to digits.

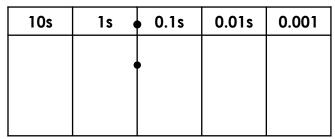




6a. Represent a number which has seven tens, no ones, eight tenths, nine hundredths and seven thousandths.

6b. Represent a number which has five tens, three ones, six tenths, eight hundredths and two thousandths.







7a. In which number does the digit 8 have the highest value?

27.038

8.413

12.834

7b. In which number does the digit 9 have the lowest value?

8b. Use the digit cards to create the

greatest and smallest number possible.

78.<mark>9</mark>33

413.09

9.408



8a. Use the digit cards to create the greatest and smallest number possible.

Tens



Ones

Tenths



Hundredths Thousandths

Tens	Ones	Tenths	Hundredths	Thousandths
	•	ľ		





Three Decimal Places Three Decimal Places 9a. Convert the number represented 9b. Convert the number represented below to digits. below to digits. 0.001 0.001 (0.1)(0.1)(0.1)(0.1)(0.001) (0.1) (0.1) (0.1) (0.1) 10a. Convert 2,737cm to m and represent 10b. Convert 4,652g to kg and represent the answer on the place value chart the answer on the place value chart below: below: 0.1s 0.1s0.01s 0.001 0.001 10s 1s 10s 1s 0.01s 11a. In which number does the digit 4 11b. In which number does the digit 1 have the lowest value? have the highest value? 2,482g 4kg 386g 3.24kg 3.621km 3.15m 2km 513m 12a. Use the digit cards to create the 12b. Use the digit cards to create the greatest and smallest number possible. greatest and smallest number possible. You must use one digit twice. You must use two digits twice.

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2b. Children may use digits or counters to

Hundredths Thousandths

<u>Developing</u>

1a. 16.63

2a. Children may use digits or counters to show 9.562

Ones	Tenths	Hundredths	Thousandths

3a. 1.07, the digit 7 is worth 7 hundredths.

4a. Largest: 43.21, Smallest: 12.34

Expected

Developing

show 52.685

1b. 48.94

5b. 56.971

6b. Children may use digits or counters to show 53.682

3b. 29.34, the digit 2 is worth 2 tens.

4b. Largest: 99.87, Smallest: 78.99

10s	1s (0.1s	0.01s	0.001s
				•

7b. 413.09, the digit 9 is worth 9 hundredths.

8b. Largest: 98.532, Smallest: 23.589

Expected

5a. 24.211

6a. Children may use digits or counters to show 70.897

10s	1s •	0.1s	0.01s	0.001s
	•			
		• •		

7a. 8.413, the digit 8 is worth 8 ones.

8a. Largest: 99.71, Smallest: 1.799

Greater Depth

9a. 7.201

10a. Children may use digits or counters to show 27.37

10s	1s •	0.1s	0.01s	0.001s
•		•		•
•				

11a. 3.24kg, the digit 4 is worth 40g.

12a. Largest: 99.1 (99.100), Smallest: 0.199 (00.199)

Greater Depth

9b. 63.106

10b. Children may use digits or counters to show 4.652

10s	1s (0.1s	0.01s	0.001s
• •			•	
	• •	•		

11b. 2km 513m, the digit 1 is worth 10m

12b. Largest: 887.2 (887.20),

Smallest: 0.278 (00.278)