SUBJECT: Maths

Week Commencing: 20/04/20

Lesson 1

Learning Outcome: To represent tenths on a number line.

Step 1- Change the mixed number fraction to a decimal. To do this, divide the numerator by the denominator. Then, add this to the whole number. For example, to change 4 2/10 to a decimal, we would do 2 ÷10 = 0.2 and 4 + 0.2 = 4.2

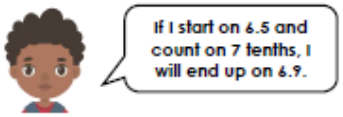
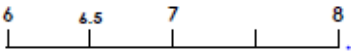
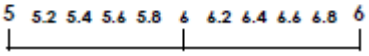
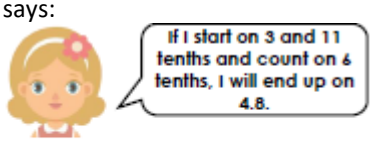
Step 2- Place the decimal on a number line. To do this, find the whole number on the number line. Then, look at the numerator to find out the number of jumps after the whole number you need to take.

Don't forget: The numerator of the fraction tells you which number goes to the right of the decimal point.

Arithmetic: Change these into decimals and place them on a number line.

1) 3 and 3/10 2) 3 and 5/10 3) 4 and 8/10 4) 4 and 6/10 5) 4 and 1/10

Reasoning:

Derek is using a number line to count. He says:   Is he correct? Explain your answer.	Kelvin has labelled the number line below but he has made a mistake.  Explain the mistake he has made.	Izzy is using a number line to count, she says:  Is she correct? Explain your answer.

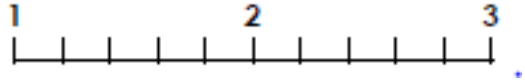
Challenge:

Find 3 possible combinations using the clues below.

It is between 1.1 and 2.5.

The ones digit is odd.

The tenths digit is > 4.



Lesson 2

Learning Outcome: To divide 1 digit numbers by 10.

When dividing by 10, we move all digits 1 place to the right. When we divide a 1 digit number by 10, the digit simply moves 1 space to the right so it is **after** the decimal point. The column **after** the decimal point is called the **tenths** column.

For example:

3 ÷ 10 = 0.3

T	O	.	t
	3		

→

T	O	.	t
	0	.	3

5 ÷ 10 = 0.5

T	O	.	t
	5		

→

T	O	.	t
	0	.	5

Remember: You need to put your place holder into the empty column before the decimal point!

Arithmetic:

Divide these one digit numbers by 10 using a place value chart.

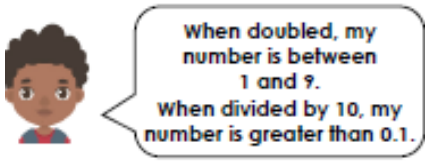
1) 9 2) 7 3) 2 4) 5 5) 1 6) 4

Reasoning:

Annabel is dividing 8 by 10. She places 8 counters in the ones column of a place value grid. She says, 'I need to move the counters one column to the left to find the answer.' Is she correct? Explain your answer.	Nathan is dividing 1-digit numbers by 10 and circling the answer on the chart. | 10	20	30	40	50	60	70	80	90
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 | Explain the mistake he has made.	Use the digit cards to make the following statement correct. □ ÷ 10 > □ ÷ 10 7 8 3 1 Give 3 possible answers.

Challenge:

Theo is thinking of an even 1-digit number.



Hint: Remember, when we divide by 10, we move the digits 1 column to the right.

Lesson 3

Learning Outcome: To divide 2 digit numbers by 10.

When dividing by 10, we move all digits 1 place to the right. When we divide a 2 digit number by 10, the digits simply move 1 space to the right. The digit in the ones column will move to the column **after** the decimal point. The column **after** the decimal point is called the **tenths** column.

For example:

13 ÷ 10 = 1.3

T	O	.	t
1	3		

→

T	O	.	t
	1	.	3

25 ÷ 10 = 2.5

T	O	.	t
2	5		

→

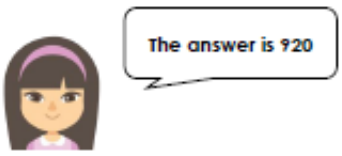
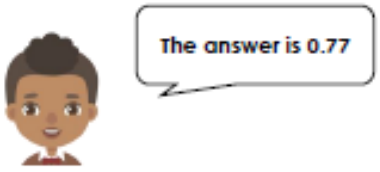
T	O	.	t
	2	.	5

Arithmetic:

Divide these two digit numbers by 10 using a place value chart.

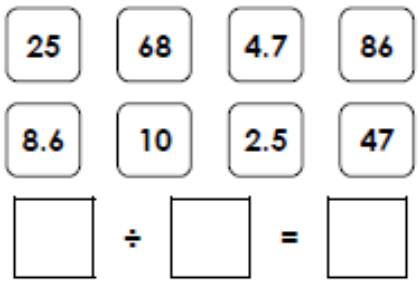
1) 25 2) 82 3) 64 4) 99 5) 13 6) 54

Reasoning:

Yasmin has divided 92 by 10. Yasmin says,  Is she correct? Explain how you know.	Use your knowledge of dividing 2-digits by 10 to find the odd one out. **5.1 6.7 12 2.3 9.1** Explain your reasoning.	Imran has divided 77 by 10. Imran says,  Is he correct? Convince me.

Challenge:

Use the cards to complete the number sentence.



Find 3 possibilities.

Lesson 4

Learning Outcome: To represent hundredths on a place value grid.

Ones	Tenths	Hundredths
2	2	4

2.24 is equal to 2 ones, 2 tenths and 4 hundredths.

Ones	Tenths	Hundredths
5	6	8

5.68 has 5 ones, 2 tenths and 8 hundredths.

Remember: The hundredths go in the second column to the right of the decimal point.

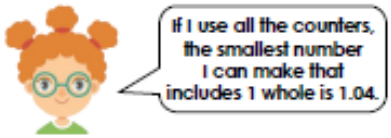
Arithmetic:

Put these decimals into a place value grid.

1) 3.67 2) 1.76 3) 9.35 4) 2.29 5) 4.66 6) 0.45

Reasoning:

Mia is using a place value chart and five counters to make different numbers.
Mia says,



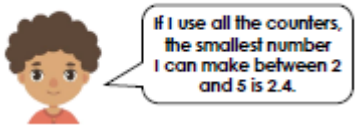
Is she correct? Explain your answer.

Which one is the odd one out?

9.87 5.67 234 4.85

Explain your answer.

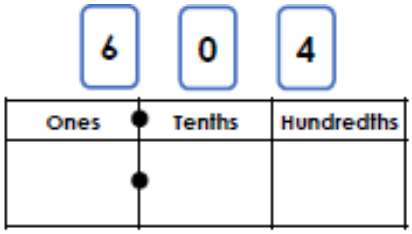
Nico is using a place value chart and six counters to make different numbers be
Nico says,
Ni



Is he correct? Explain how you know.

Challenge:

Using all the digit cards and the place value chart, make three different numbers less than four.



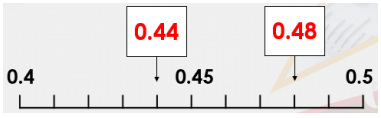
What is the biggest number you can make?

Remember: You will be able to make any number bigger than 3.0 and smaller than 3.9

Lesson 5

Learning Outcome: To represent hundredths on a number line.

Find the tenths on the number line (the number after the decimal point). Then, look at the next number (the hundredths), which will tell you how many jumps you need to do on your number line.



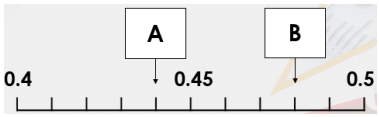
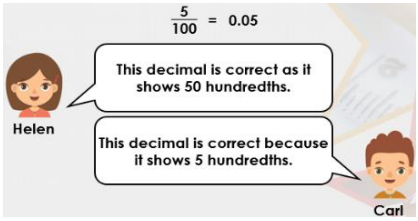
Remember, hundredths are the second number to the right of the decimal point.

Arithmetic:

Change these to decimals and put them on a number line?

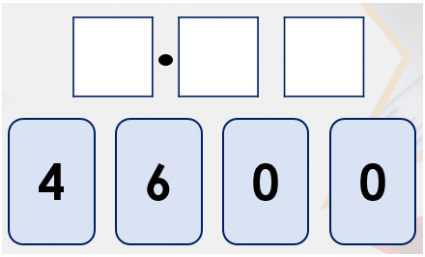
1) 4 tenths and 5 hundredths 2) 4 tenths and 9 hundredths 3) 5 tenths and 7 hundredths
4) 5 tenths and 1 hundredth 5) 5 tenths and 3 hundredths 6) 5 tenths and 9 hundredths

Reasoning:

Which numbers go in the boxes below?  Explain how you know.	Who is correct? Explain how you know.  	Is this statement correct? **0.22 > 0.02** Explain your answer.

Challenge:

Use the digit cards to make three decimals less than one.



Challenge: Can you write the equivalent fractions for each of your decimals?