Date	12.1.20
Subject/s	**Maths**
Learning Objective	To round decimals to the nearest tenth or hundredth.

	SA	TA

Success Criteria ✔!	I can underline the place value column we're rounding		
	I can look next door (right)		
	If it is 5 or higher I know to add 1, if it is lower 4 or less I know the underlined number stays the same		
Support	Independent Adult Support ( ) Group Work		

Lockdown learning: DC

Pre-task

1) Round to the nearestest tenth 1.76
2) Round to the nearest hundredth 3.416

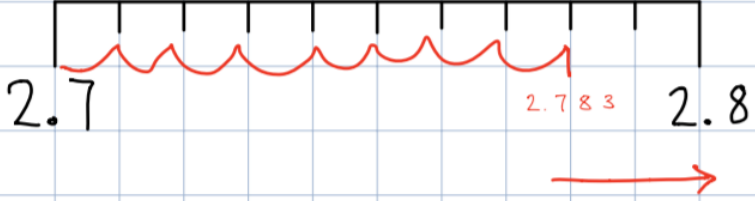Teacher led: Fluency:

Teacher led:

Rounding to the nearest tenth.

2.7⃝8 3 = **2.8**

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
2	7	8	3

Does 8 round up or down?

2.7 〜〜〜〜〜〜 2.7 8 3   2.8

How to round to the nearest tenth:

1) Underline your tenths digit. Use a place value grid to help you if you aren't sure.
2) Put that tenth onto the start of your number line. Then at the end of the number line, write what the next tenth would be.
3) Look what's in your hundredths column. If it is 0, 1, 2, 3, 4 then your number will round down.
   If it is 5, 6, 7, 8, 9 then your number will round up to the next tenth.
4) Draw this on a number line if you are unsure.

1)   7.293 = 7.3

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
7	2	9	3

7.2   7.3
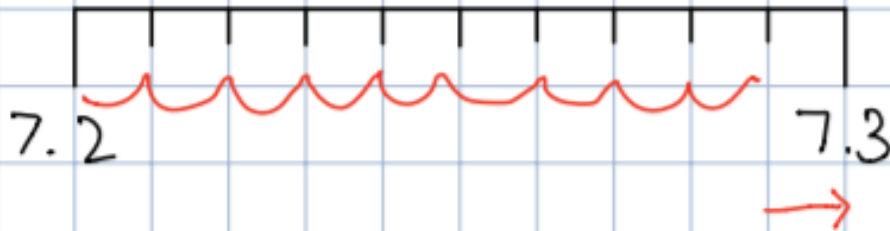
2)   1.635 = 1.6

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
1	6	3	5

1.6   1.7

3)   39.106 = 39.1

10s	1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
3	9	1	0	6

39.1   39.2
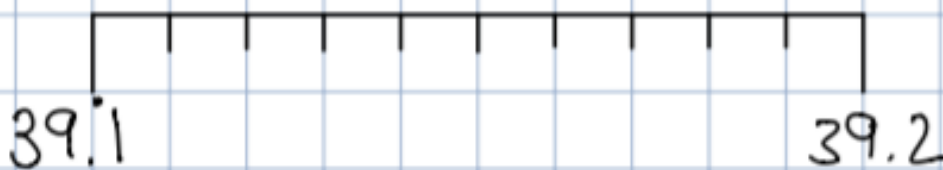
Rounding to the nearest hundredth.

1) 3.9 8̲ 6 = (3.9 9)

Is	.	$\frac{1}{10}$	$\frac{1}{100}$	$\left(\frac{1}{1000}\right)$
3	.	9	8	6

3.98 ———————— 3.99 →
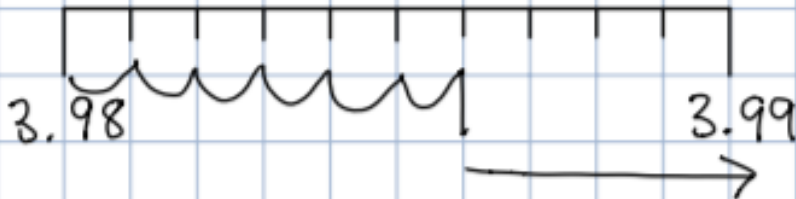
2) 6.6 3̲ 6 = 6.6 4

Is	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
6	.	6	3	6

6.63 ———————— 6.64 →

3) 5 .
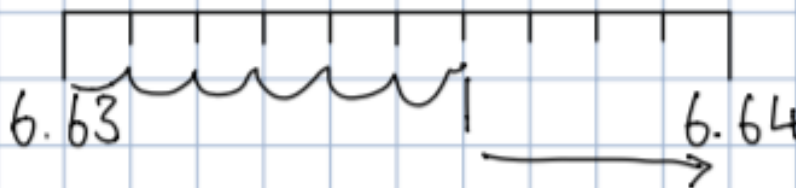
Is	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
5	.	0	1	4

5.01 ———————— 5.02
←

How to round to the nearest hundredth:

1) Underline your hundredth digit. Use a place value grid to help you if you aren't sure.
2) Put that hundredth onto the start of your number line. Then at the end of the number line, write what the next hundredth would be.
3) Look what's in your thousandth column. If it is 0, 1, 2, 3, 4 then your number will round down. If it is 5, 6, 7, 8, 9 then your number will round up to the next tenth.
4) Draw this on a number line if you are unsure

If you feel confident in rounding to the nearest tenth and hundredth, complete this fluency:

Fluency A Round to the nearest tenth.	Fluency B Round to the nearest hundredth.
1) 2.39	1) 0.263
2) 7.138	2) 3.745
3) 1.85	3) 1.452
4) 16.074	4) 0.179
5) 9.52	5) 7.824
6) 3.263	6) 2.397
7) 8.947	7) 0.036
8) 15.63	8) 4.981
9) 4.453	9) 8.505
10) 0.78	10) 5.658

A

B

1)
2)
3)
4)
5)
6)
7)
8)
9)
10)

1)
2)
3)
4)
5)
6)
7)
8)
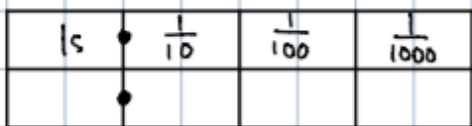9)
10)

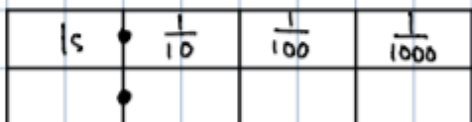If you would like some support, complete this fluency. Make sure you use the place value grid and number line.

1)   2.39 =

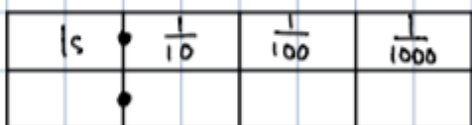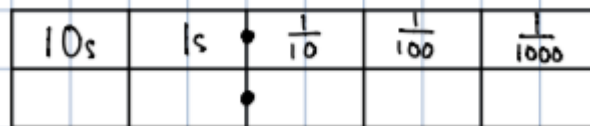| 1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

2.3 ————————————— 2.4

2)   7.138

1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

7.1 ————————————— 7.2

3)   1.85

1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

1.8 ————————————— 1.9

4)   16.074

10s	1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
		•			

16 ————————————— 16.1

5)   9.52

1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			
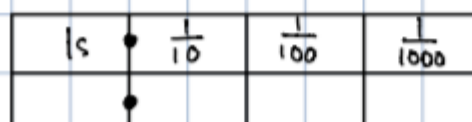
9.5 ————————————— 9.6

6)   3.263
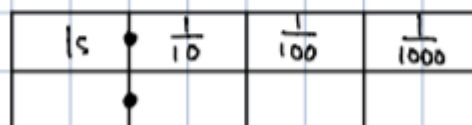
1s	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

3.2 ————————————— ____

7)   8.9 4 7

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

8.9   9

8)   1 5. 6 3

10s	1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
		•			

15.6   ____

9)   4. 4 5 3

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

4.4   ____

1 0)   0. 7 8

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

0.7   ____

Rounding to the nearest hundredths.

1) 0. 2 6 3

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

0.26

2) 3. 7 4 5

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

3.74

3) 1. 4 5 2

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

1.45

4) 0. 1 7 9

1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

0.17

5) 7 . 8 2 4

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

7.82

6) 2 . 3 9 7

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

2.39   2.40

7) 0 . 0 3 6

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

0.03

8) 4 . 9 8 1

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

4.98

9) 8 . 5 0 5

1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			

8.50   8.51

10) 5 . 6 5 8

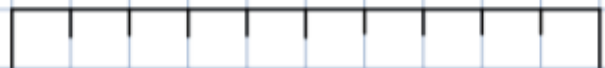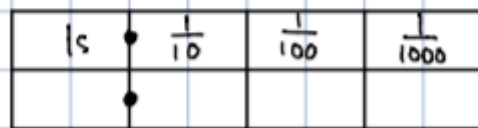| 1s	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	•			
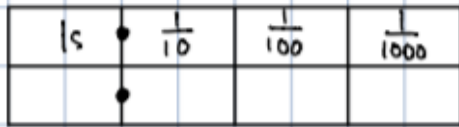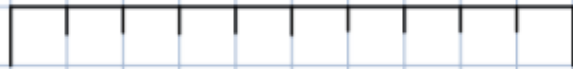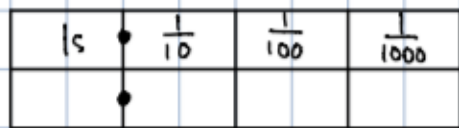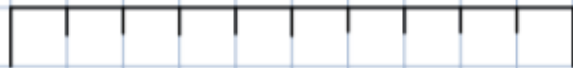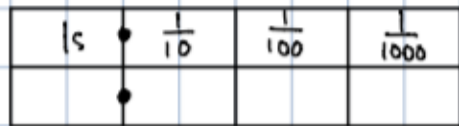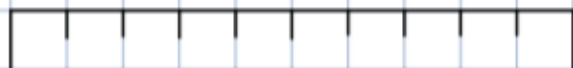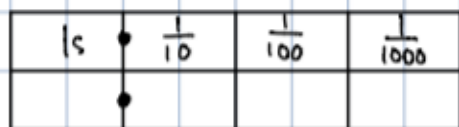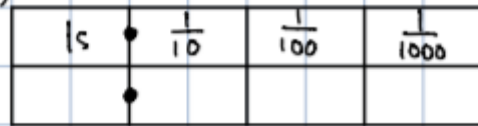
5.65

Problem Solving and Reasoning

Explain it!

Can you write a sentence to explain how to round to the nearest tenth.

Prove it.

Can you draw a number line to prove if these answers are correct.

Prove it!

Round to the nearest:	Tenth	Hundredth
0.3648	0.4	0.36
0.692764	0.7	0.69

Answers

1)	2.4	1)	0.26
2)	7.1	2)	3.75
3)	1.9	3)	1.45
4)	16.1	4)	0.18
5)	9.5	5)	7.82
6)	3.3	6)	2.40
7)	8.9	7)	0.04
8)	15.6	8)	4.98
9)	4.5	9)	8.51
10)	0.8	10)	5.66

Problem Solving and Reasoning

Explain it:
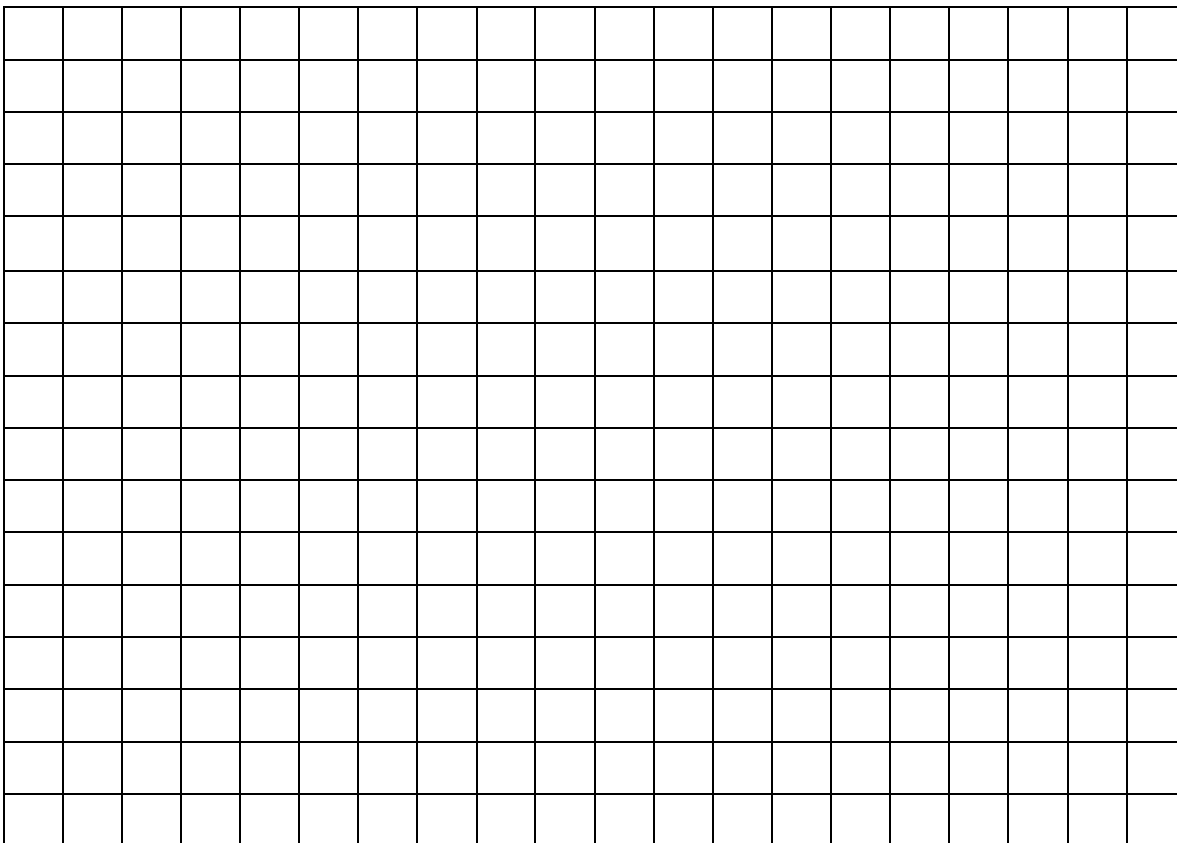Can you write a sentence to explain how to round to the nearest tenth.

Prove it.

Prove it

Can you draw a number line to prove if these answers are correct.

Round to the nearest:	Tenth	Hundredth
0.3648	0.4	0.36
0.692764	0.7	0.69

First, you must find the value of the tenth. Then look at the hundreths column.
If it is 0,1,2,3,4 then the tenth stays the same.
If it is 5,6,7,8,9 add one to your tenths digit.

2)
0.3 ____ 0.36 ____ 0.4

0.36 ____ 0.364 ____ 0.37

0.6 ____ 0.69 0.7

0.69 0.692 ____ 0.70