16.07.2021
WALT: Round to the nearest 10 and 100

Vocabulary
round
place value
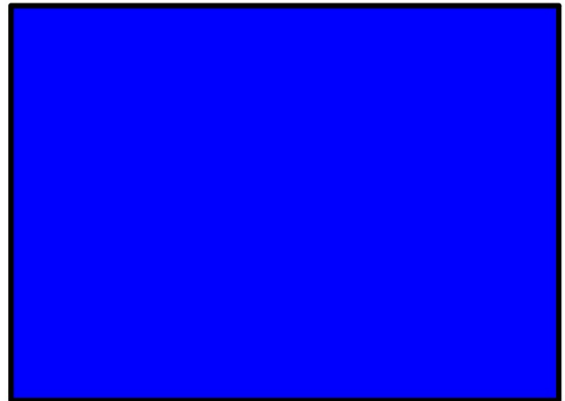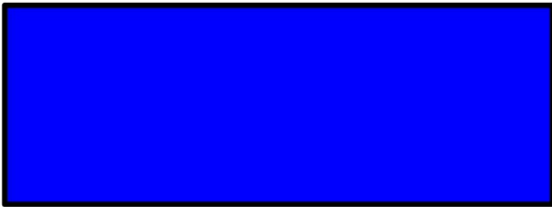
Prior learning:

What do you already know about rounding?

Why is rounding useful?

What representations can you use to help you round?
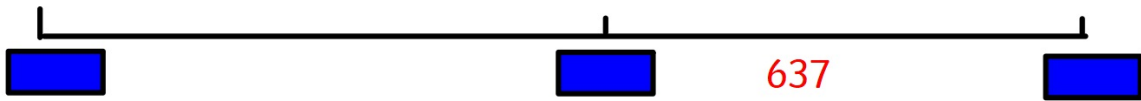
When and how do we use rounding in real life?
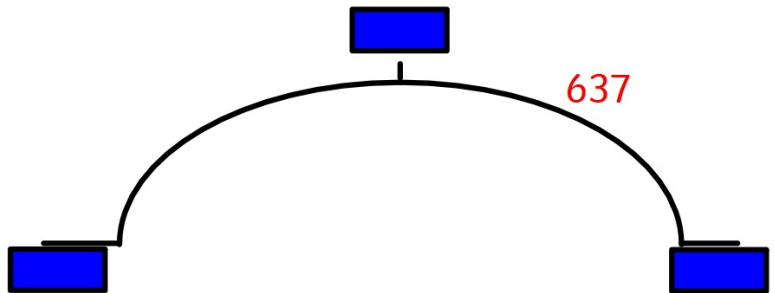
When would it be appropriate to round to the nearest 10?

When would it be appropriate to round to the nearest 100?

Rounding to the nearest 10

M	Hth	Tth	Th	H	T	O
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 000 000	100 000	10 000	1000	100	10	1
				6	3	7

637

[ ] 637 [ ]

[ ] < 637 < [ ]

637

Rounding to the nearest 10

M	Hth	Tth	Th	H	T	O
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 000 000	100 000	10 000	1000	100	10	1

Identify the previous multiple of ten and the next multiple of ten

What is the value of the 1s column?

Round up if the 1s column is 5 or over, round down if the 1s column is 4 or less

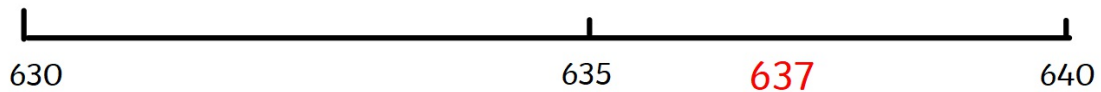The answer will always have a zero in the 1s column

Round to the nearest 10:

873
421
585
1843

630 — 635 — 637 — 640

630 < 637 < 640

635
637
630
640
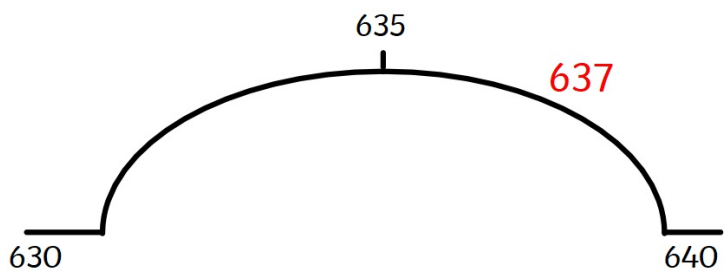
Rounding to the nearest 100

M	Hth	Tth	Th	H	T	O
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 000 000	100 000	10 000	1000	100	10	1
			1	4	3	2

1432

[ ]   [ ]   [ ]

[ ] < 1432 < [ ]

1432

Rounding to the nearest **100**

Identify the previous multiple of hundred and the next multiple of hundred

What is the value of the 10s column?

Round up if the 10s column is 5 or over, round down if the 10s column is 4 or less

The answer will always have a zero in the 1s and 10s column
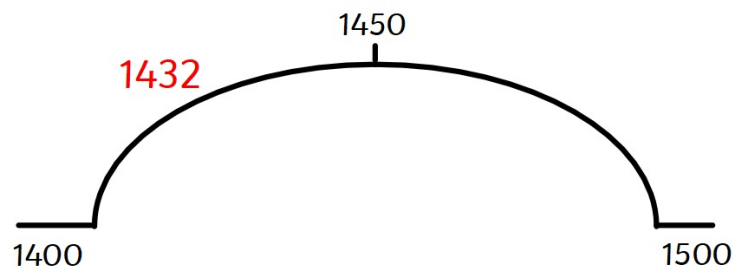
Round to the nearest 100:

1873
7585
12,843

1432

|———————————————|———————————————|
1400   1450   1500

1450

1432

1400 < 1432 < 1500

1400   1500

M	Hth	Tth	Th	H	T	O
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 000 000	100 000	10 000	1000	100	10	1

Helen rounds 5602 to the nearest 100.
She believes the answer is '600'.
Do you agree? Explain why.

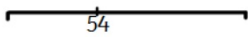6548 rounded to the nearest 100 is...

A. 6,600

B. 6,500

C. 6,550

D. 7,000

E. I don't know **yet**

Th	H	T	U
Thousands	Hundreds	Tens	Units
1000	100	10	1
6	5	4	8

<u>Try it</u>

1.

What is the previous and next multiple of 10
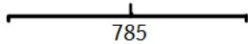
|————————————|
    54

What is the previous and next multiple of 10

|————————————|
    785

What is the previous and next multiple of 100

|————————————|
    1048

What is the previous and next multiple of 100

|————————————|
        2993
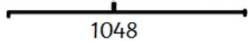
<u>**Rounding to the nearest 10:**</u>
Identify the previous multiple of ten and the next multiple of ten

What is the value of the 1s column?

Round up if the 1s column is 5 or over, round down if the 1s column is 4 or less

The answer will always have a zero in the 1s column

<u>**Rounding to the nearest 100:**</u>
Identify the previous multiple of hundred and the next multiple of hundred

What is the value of the 10s column?

Round up if the 10s column is 5 or over, round down if the 10s column is 4 or less

The answer will always have a zero in the 1s and 10s column

2.

Round **84,516**

to the nearest 10   [   ]

to the nearest 100   [   ]

4. Complete the table.

Start Number	Nearest 10	Nearest 100
365		
1,242		
	4,770	

3.

For each number, find five numbers that round to it when rounding to the nearest 100

[300]   [10,000]   [8,900]

Use it

1. A venue holds 3,278 fans for a concert. Rounded to the nearest 100, how many people can the venue hold?

2. A football stadium holds 65,218 fans. Rounded to the nearest 100, how many people can it hold?

3. Here are three bags in a shop

A	B	C
£11.50	£14.65	£16.50
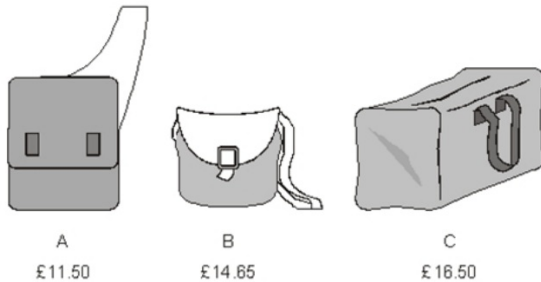
How much does bag B cost to the nearest pound?

4.

9   4   1   2

Here are four digit cards. Make two different numbers that round to 200 when rounding to the nearest 100.

Prove it

2,567 to the nearest 100 is 2,500

Whitney

Do you agree with Whitney?
Explain why.

REASONING 3

If I round 347 to the nearest 100, the answer is 400 because a 7 always rounds up!

| 300 | 347 | 400 |

REASONING 2

A number is rounded to the nearest 10 and the answer is 30.

There are 5 possible answers: 30, 31, 32, 33 and 34.

Do you agree with Marlon?

My number is 1,350 when rounded to the nearest 10

Mo

My number is 1,400 when rounded to the nearest 100

Rosie

Both numbers are whole numbers.

What is the greatest possible difference between the two numbers?