5.11.20

WALT Round 3 and 4-digit numbers to the nearest 100

F

R

PS

# Vocabulary

multiples

hundred

zero

nearer to

nearest

round up

round down

half-way

digits

bigger

smaller

thousands

hundreds

tens

ones

Remember, we are looking at multiples of 100.

Starting at 6000, count in 100s.

6000 6100 6200 6300 6400

6500 6600 6700 6800 6900 7000

So, when you round to the nearest 100, what do all of your answers end in?

And, can you remember what number is ½ of 100?

50

# You can still use the same rounding strategies to help you round to the nearest 100:

1. Thinking of the number's position on a 100 square. Look carefully at the number: CIRCLE, underline
2. Using a blank number line
3. Using a rounding hill or rollercoaster

# 1. Thinking of the number's position on a 100 square and CIRCLE, underline

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 100 |
| 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 |
| 8 | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 |
| 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 |
| 6 | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 | 96 |
| 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
| 4 | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| 3 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 |
| 2 | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 |
| 1 | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 |
| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

Circle the H and underline the TO.

1. 656
2. 581
3. 349
4. 3819
5. 9473
6. 5208

When you round down, does the H column change?

Does the H column change when you round up? By how many?

# 1. Thinking of the number's position on a 100 square and CIRCLE, underline

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 100 |
| 9 | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 | 99 |
| 8 | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 | 98 |
| 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 | 97 |
| 6 | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 | 96 |
| 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 |
| 4 | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 | 94 |
| 3 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 |
| 2 | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 | 92 |
| 1 | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 | 91 |
| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

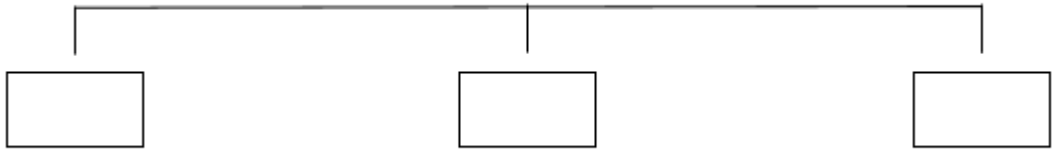
Circle the H and underline the TO.

1. 973
2. 921
3. 956
5. 7984
6. 5950
7. 9963

When you round down, does the H column change?

When there's a 9 in the H column which columns change when you round up?

# 2. Using a blank number line



# 3. Using a rounding hill or rollercoaster



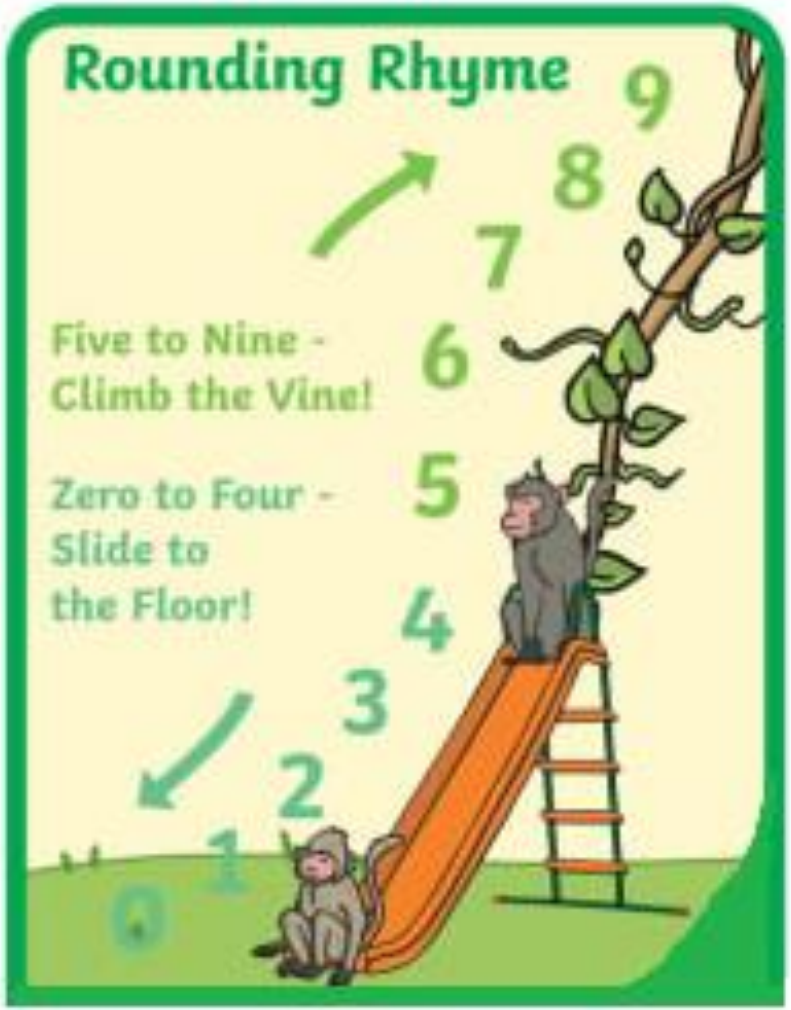
Remember, the two end numbers will be multiples of 100 and the middle number will always end in 50.

# Slide to the floor, climb the vine

When rounding to 100:

50 to 99 climb the vine

0 to 49 slide to the floor



# Fluency – Practise Rounding 3-digit Numbers to the Nearest 100

Copy each number and then round it to the nearest 100.

1. 604 →
2. 579 →
3. 346 →
4. 283 →
5. 650 →
6. 150 →
7. 936 →
8. 492 →
9. 786 →
10. 949 →

## Fluency

Copy each number and then round it to the nearest 100.

1. 3946 →
2. 1952 →
3. 6987 →
4. 8923 →
5. 7295 →
6. 5934 →
7. 9961 →

Now, write each number in digits and then round it to the nearest 100.

8. three hundred and forty-six
9. seven thousand, two hundred and fifty-seven
10. eight thousand, nine hundred and fifty

## Reasoning 1

Jen and Harvey are rounding numbers to the nearest 100.

Jen says:



When I round 4953 to the nearest 100, all of the digits change.

Harvey disagrees with Jen. He says:

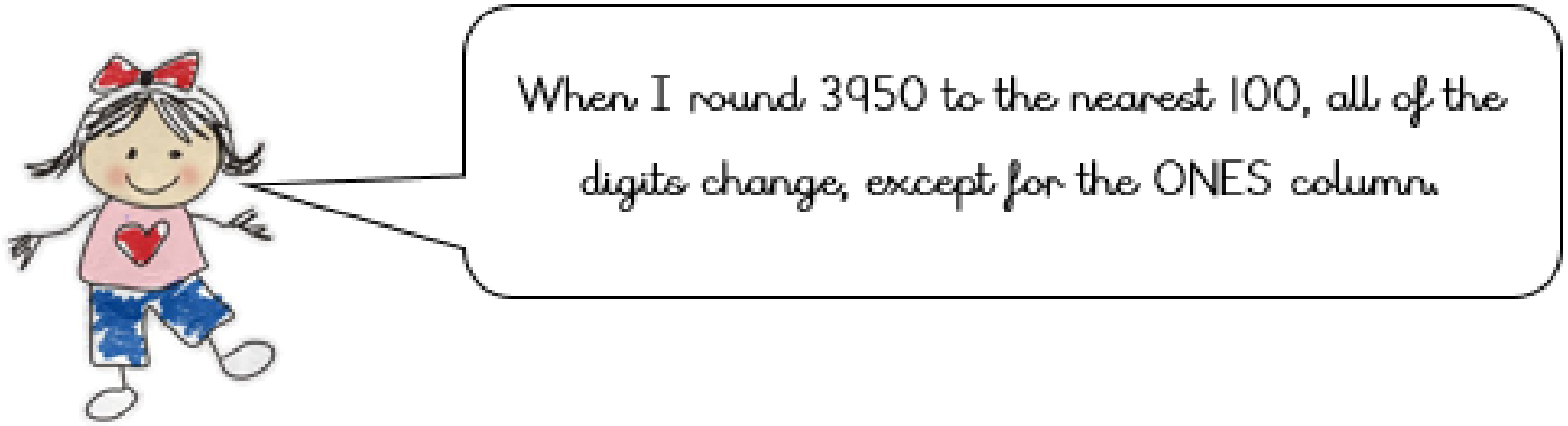


No, you're wrong, Jen. When you round 4953 to the nearest 100, only the H, T and O digits change.

Who is correct? Use mathematical vocabulary to explain how you know.

## Reasoning 2

Abbie says:




Is Abbie correct? Explain your reasoning.

## Problem Solving

The difference between two 3-digit numbers is two.

When each number is rounded to the nearest 1000, the difference between them is 1000.

What could the two numbers be?

# Plenary

https://www.topmarks.co.uk/maths-games/rocket-rounding