

## What have I previously learned?

- Represent numbers to 100, 1,000 and 10,000
- Roman Numerals
- Thousands, hundreds, tens and ones
- Find 1, 10, 100, 1,000 more or less
- Partition numbers to 1,000 and 10,000
- Number line to 1,000 and 10,000
- Compare and order numbers 10, 1,000 and 10,000
- Round to the nearest 10, 100 and 1,000

## Vocabulary - Goldilocks words

| Word            | Definition   |
|-----------------|--|
| Negative number | Number less than zero.   |
| partition       | A way of splitting numbers into smaller parts to make them easier to work with.                              |
| Digit           | The single numbers used to represent values in math.   |
| Interval        | A range of numbers between two given numbers and includes all of the real numbers between those two numbers. |
| sequence        | Set of numbers that follow a pattern or rule.  |
| Linear sequence | Goes from one term to the next by always adding.   |

## Useful links

- <https://vimeo.com/729949387>
- <https://vimeo.com/729950338>
- <https://vimeo.com/729950632>
- <https://vimeo.com/729951486>
- <https://vimeo.com/729953579>
- <https://vimeo.com/729954812>

## Prompts to help me in my learning

### Counting in powers of 10.

#### Counting in 10s

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 365 | 375 | 385 | 395 | 405 | 415 |
|-----|-----|-----|-----|-----|-----|

The tens increase until 9 tens becomes one more hundred and 0 tens.

#### Counting in 100s

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| 2841 | 2941 | 3041 | 3141 | 3241 | 3341 |
|------|------|------|------|------|------|

The hundreds increase until 9 hundreds becomes one more thousand and 0 hundreds.

#### Counting in 10 000s

|         |         |         |         |
|---------|---------|---------|---------|
| 276 109 | 286 109 | 296 109 | 306 109 |
|---------|---------|---------|---------|

The ten thousands increase until 9 ten thousands become one more hundred thousand and 0 ten thousands.

#### Counting in 100 000s

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| 2 972 151 | 3 072 151 | 3 172 151 | 3 272 151 |
|-----------|-----------|-----------|-----------|

The hundred thousands increase until 9 hundred thousands becomes one more million and 0 hundred thousands.

### Compare and Order

#### equals

$$26 + 38 = 8 \times 8$$

Both calculations have the value 64.

#### greater than

$$23\ 873 > 8256$$

The number on the left has 2 ten thousands and the number on the right has 0 ten thousands.

#### less than

$$901\ 198 < 1\ 091\ 098$$

The number on the right has 1 million and the number on the left has 0 millions.

smallest 898 6735 6835 7019 9002 11 235 greatest

### Roman Numerals

#### Rounding to the nearest 10

|              |    |    |    |    |            |    |    |    |    |    |
|--------------|----|----|----|----|------------|----|----|----|----|----|
| 20           | 21 | 22 | 23 | 24 | 25         | 26 | 27 | 28 | 29 | 30 |
| ← round down |    |    |    |    | round up → |    |    |    |    |    |

#### Rounding to the nearest 1000

|              |      |            |      |
|--------------|------|------------|------|
| 2000         | 2499 | 2500       | 3000 |
| ← round down |      | round up → |      |

#### Rounding to the nearest 100 000

|              |         |            |         |
|--------------|---------|------------|---------|
| 200 000      | 249 999 | 250 000    | 300 000 |
| ← round down |         | round up → |         |

|          |          |           |           |            |
|----------|----------|-----------|-----------|------------|
| I = 1    | II = 2   | III = 3   |           |            |
| IV = 4   | V = 5    | VI = 6    | VII = 7   | VIII = 8   |
| IX = 9   | X = 10   | XI = 11   | XX = 20   | XXX = 30   |
| XL = 40  | L = 50   | LX = 60   | LXX = 70  | LXXX = 80  |
| XC = 90  | C = 100  | CL = 150  | CC = 200  | CCC = 300  |
| CD = 400 | D = 500  | DC = 600  | DCC = 700 | DCCC = 800 |
| CM = 900 | M = 1000 | MC = 1100 | MD = 1500 | MM = 2000  |

### Rounding