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Level 1 Numeracy – Whole Numbers

1 of 18 - Welcome

Welcome to this session on whole numbers. By the end of this session you will be able to:

- Understand whole numbers
- Use a number line
- Use a place value chart
- Write and describe whole numbers

2 of 18 – Counting and whole numbers

What is a counting number and what is a whole number?

Counting numbers are the numbers that we use every day in order to count.

Whole numbers are all the counting numbers plus zero.

There are many different kinds of numbers that are not whole numbers. These include:

- Negative numbers, for example: -1, -2, -3
- Fractions, for example: $\frac{1}{2}$, $\frac{3}{4}$
- And decimals, for example: 0.5, 3.1

3 of 18 – Types of numbers

During this session, you will only learn about whole numbers.

However, the difference between whole numbers and other kinds of numbers that we commonly use are listed below.

Counting numbers are all numbers used in order to count. For example 1, 999 and 85.

Whole numbers are all counting numbers including zero. For example 0, 5022 and 135.

Negative numbers are numbers that are less than zero. For example -1 and -110,058.

Fractions are part of a whole number. The top number is called the numerator and the bottom number is called the denominator. For example one half or five eighths.

Decimals are numbers using the decimal point. For example, 37.8 and 267.7.

4 of 18 – Question 1

Which of the following numbers are whole numbers?

- a. 8.56
- b. 100

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- c. 0
- d. $\frac{1}{5}$
- e. -2
- f. 6532

The correct answers are: 100, 0, and 6532.

5 of 18 – Question 2

Which of the following best represents a whole number?

- a. A thermometer showing -16 degrees C
- b. A bitten apple
- c. Two muffins

The correct answer is: c. Two muffins.

6 of 18 – Number lines

Number lines are horizontal lines that represent a set of numbers in order.

Number lines can be used for:

Finding out if one number is greater or lesser than another.

As a way of working out adding and subtracting calculations.

The numbers increase from left to right on a number line.

The numbers on the left are lesser than the numbers on the right.

The numbers on the right are greater than the numbers on the left.

7 of 18 – Question 3

Using the number line, find out which of the following statements are correct.
256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267.

- a. 265 is greater than 256
- b. 259 is less than 257
- c. The numbers shown on the number line are whole numbers
- d. The numbers shown on the number line are decimals

The correct answers are:

- a. 265 is greater than 256
- c. The numbers shown on the number line are whole numbers

8 of 18 – Place value of whole numbers

Whole numbers consist of digits.

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Each digit in a number has a place value.

Knowing the place value of every digit in a number will allow you to:

Compare numbers.

Write numbers in words.

Please [visit the website and watch the video on place values](#).

9 of 18 – Place value of whole numbers

Let's look at an example of a place value chart.

The numbers always go in the table from right to left. Here are some examples:

For the number 215, there is a 2 in the hundreds column, a 1 in the tens column, and a 5 in the ones column.

For the number 6731, there is a 6 in the thousands column, a 7 in the hundreds column, a 3 in the tens column, and a 1 in the ones column.

For the number 1250367, there is a 1 in the millions column, a 2 in the hundred-thousands column, a 5 in the ten-thousands column, a 0 in the thousands column, a 3 in the hundreds column, a 6 in the tens column, and a 7 in the ones column.

10 of 18 – Question 4

In which columns do the following digits go in the place value chart for the number: 258964?

5, 9, 2, 6, 8, 4

Answer:

5 goes in the ten-thousands column.

9 goes in the hundreds column.

2 goes in the hundred-thousands column.

6 goes in the tens column.

8 goes in the thousands column.

4 goes in the ones column.

11 of 18 – Comparing whole numbers

Visit [this website](#) which describes how you can use a place value chart in order to compare whole numbers.

The information given in the video will then help you answer the next question. You will only need to watch the first 3 and a half minutes of the video for this session.

12 of 18 – Question 5

Using a place value chart, compare the two numbers to decide which is bigger.

In the ten-thousands column, number A has 8, and number B has 8.

In the thousands column, number A has 5, and number B has 5.

In the hundreds column, number A has 5, and number B has 4.

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In the tens column, number A has 4, and number B has 5.

In the ones column, number A has 4, and number B has 4.

Answer: Number A, 85544, is greater than number B, 85454.

13 of 18 – Describing whole numbers in words

Place value charts can be used in order to describe whole numbers in words. When describing a number we start with the highest value, from left to right.

It is important to remember that some values are read together:

Tens are read with ones and a hyphen is used between the two words.

Thousands are read with ten-thousands and hundred-thousands.

Millions are read with with ten-millions and hundred millions.

14 of 18 – Describing whole numbers in words

Here are some examples of describing whole numbers in words:

The number 561 in words is five hundred and sixty-one.

The number 42390 in words is forty-two thousand, three hundred and ninety.

The number 250774012 in words is two hundred and fifty million, seven hundred and seventy-four thousand and twelve.

15 of 18 – Question 6

From the following list, select the correct number for the number: three hundred and ten thousand, two hundred and eighty-seven.

- a. 310.287
- b. 3,10287
- c. 310,287
- d. 3.10,287

The correct answer is: c. 310,287.

16 of 18 – Question 7

Use the words from the list to fill in the blanks in the following statement.

Hundred, million, thousand, hundred.

The number 2,523,230 is described in words as:

Two **blank**, five **blank** and twenty-three **blank**, two **blank** and thirty.

17 of 18 – Question 8

Which of the following conversions are correct?

- a. 789 is seven thousand and eighty-nine
- b. 3,405 is three thousand, forty hundred and five
- c. 970,555 is nine hundred and seventy thousand, five hundred and fifty-five
- d. two million, six hundred and six thousand is 2,606,000
- e. twelve million, nine thousand, one hundred and ninety-nine is 12,900,199

Answer: the correct conversions are:

- c. 970,555 is nine hundred and seventy thousand, five hundred and fifty-five.
and
- d. two million, six hundred and six thousand is 2,606,000.

18 of 18 – End

Well done, you have completed this session on whole numbers.

In this session we have covered:

Whole numbers.

Number lines.

Place value charts.

How to write and describe whole numbers.

If you are unsure or have any questions about any of these topics, make a note and speak to your tutor for more help.