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Numeracy Entry Level 3 – Fractions

1 of 25 – Welcome

Welcome to this session on fractions.

By the end of the session you will:

- Understand that fractions are parts of a whole
- Recognise fractions from shapes
- Be able to express fractions in words and numbers
- Be able to work out simple fraction problems

2 of 25 – Fractions

A fraction is a part of something. Fractions are always written as follows:

Numerator over denominator. The numerator sits above the horizontal line and the denominator sits below the line. The numerator shows how many parts of the whole are being represented. The denominator shows how many parts make the whole.

3 of 25 – Fraction example

Let's look at an example.

We write an eighth as follows: $\frac{1}{8}$. The 1 sits above the fraction line and the 8 sits below. Here the numerator is showing that this fraction represents 1 part of the whole. Here the denominator is showing that 8 parts make up the whole.

4 of 25 – Question 1

In the fraction $\frac{3}{5}$, which number is the numerator?

- A. 3
- B. 5

The correct answer is A, 3.

5 of 25 – Question 2

In the fraction $\frac{7}{8}$, which number is the denominator?

- A. 7
- B. 8

The correct answer is B, 8.

6 of 25 – Unit and non-unit fractions

There are two types of fractions:

Unit Fractions

A unit fraction has 1 as the numerator. It represents 1 part of a whole that is divided into equal parts.

For example: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{5}$.

Non-unit Fractions

A non-unit fraction has a numerator that isn't 1. It represents more than 1 part of a whole that is divided into equal parts. For example: $\frac{2}{3}$, $\frac{3}{4}$, $\frac{9}{10}$.

7 of 25 –Question 3

What type of fraction is $\frac{4}{5}$?

- A. Unit fraction
- B. Non-unit fraction

The correct answer is B, non-unit fraction.

8 of 25 –Recognising fractions from shapes

You need to be able to recognise fractions in shapes.

To read fraction shapes:

1. Consider how many parts there are. This is the denominator, the bottom number of the fraction.
2. Consider how many parts are shaded. This is the numerator, the top number of the fraction.

For example:

A circle with two parts, and one part shaded purple would be expressed as $\frac{1}{2}$.

A circle with four parts, and one part shaded purple would be expressed as $\frac{1}{4}$.

A circle with four parts, and three parts shaded purple would be expressed as $\frac{3}{4}$.

9 of 25 –Question 4

A circle has seven parts and four of the parts are shaded green. What fraction of the shape is green?

Work out your answer and then compare it with the correct answer below.

The correct answer is: $\frac{4}{7}$.

10 of 25 –Question 5

A circle has three parts and one part is shaded blue. What fraction of the shape is blue?

Work out your answer and then compare it with the correct answer below.

The correct answer is: $\frac{1}{3}$.

11 of 25 – Question 6

A rectangle has eight parts and three of the parts are shaded red. What fraction of the shape is red?

Work out your answer and then compare it with the correct answer below.

The correct answer is: $\frac{3}{8}$.

12 of 25–Writing fractions in words

You need to be able to write fractions in words and numbers. To write fractions in words, we write the numerator followed by the denominator.

For example:

- $\frac{1}{2}$ (1 over 2) is one half
- $\frac{2}{6}$ (2 over 6) is two sixths
- $\frac{2}{3}$ (2 over 3) is two thirds

13 of 25–Writing fractions in words – continued

Most fractions are easy to put into words... but watch for halves, thirds and quarters. Check out the table below:

Fraction	Word	Plural
$\frac{1}{2}$	One half	Halves
$\frac{1}{3}$	One third	Thirds
$\frac{1}{4}$	One quarter	Quarters
$\frac{1}{5}$	One fifth	Fifths
$\frac{1}{6}$	One sixth	Sixths
$\frac{1}{7}$	One seventh	Sevenths
$\frac{1}{8}$	One eighth	Eighths
$\frac{1}{9}$	One ninth	Ninths

14 of 25–Question 7

How is the fraction 4 over 5 written in words?

- Three quarters
- Four fifths
- One fifth
- Five fourths

The correct answer is B, four fifths.

15 of 25–Question 8

How is the fraction three sevenths written in numbers?

Work out your answer and then compare it with the correct answer below.

The correct answer is: $\frac{3}{7}$. 3 is the numerator and 7 is the denominator.

16 of 25–Question 9

A circle has six parts and two of the parts are shaded green. What fraction of the shape is green?

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- A. Three sixths
- B. Two sixths
- C. One sixth
- D. Six halves

The correct answer is B, two sixths.

17 of 25–Question 10

A circle has ten parts and seven of the parts are shaded red. What fraction of the shape is red?

- A. Ten sevenths
- B. Three quarters
- C. Seven ninths
- D. Seven tenths

The correct answer is D, seven tenths.

18 of 25–Question 11

Which of the following is five eighths blue?

- A. A rectangle with 8 parts and 3 shaded blue
- B. A rectangle with 8 parts and 6 shaded blue
- C. A rectangle with 8 parts and 5 shaded blue
- D. A rectangle with 8 parts and 1 shaded blue

The correct answer is C, a rectangle with 8 parts and 5 shaded blue.

19 of 25–Using fractions to work out problems

You will need to use fractions to help you work out problems. Let's look at an example:

Toby brought 9 bottles of cola to a party. He drank a third of the bottles of cola and takes the rest home with him. How many bottles of cola did he drink at the party?

To work out how many bottles of cola he drank, we need to find a third of 9.

To do this, we divide 9 by 3.

$$9 \div 3 = 3.$$

Answer: Toby drank 3 bottles of cola at the party.

20 of 25 –Question 12

24 people go to Shayla's birthday party. Half of her guests walked there. How many people walked to the party?

Work out your answer and then compare it with the correct answer below.

The correct answer is: 12.

21 of 25 – Question 13

Mrs. McDonald sets her class of 30 children a test. A tenth of the children get full marks. How many children got full marks in the test?

Work out your answer and then compare it with the correct answer below.

The correct answer is: 3.

22 of 25 – Question 14

Lucas buys a pack of six doughnuts and eats half of them. How many doughnuts has he eaten?

Work out your answer and then compare it with the correct answer below.

The correct answer is: 3.

23 of 25 – Task

Download the **Fractions PDF** and answer all of the questions.

Remember to complete and save your work on the PDF document.

24 of 25 – End

Well done. You have completed this session on fractions.

You should now:

- Understand that fractions are parts of a whole
- Recognise fractions from shapes
- Be able to express fractions in words and numbers
- Be able to work out simple fraction problems

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