

Sets, Factorials and Cross Referencing

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

We will learn how to:



Learning Objectives

We will learn how to:

- ▶ **Write Set operations**



Learning Objectives

We will learn how to:

- ▶ **Write Set operations**
- ▶ **Write Factorials**



Learning Objectives

We will learn how to:

- ▶ **Write Set operations**
- ▶ **Write Factorials**
- ▶ **Cross reference the formulae using numbers**



System Requirements



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This tutorial is recorded using:



System Requirements

This tutorial is recorded using:

► **Ubuntu Linux OS version 18.04**



System Requirements

This tutorial is recorded using:

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **LibreOffice Suite version 6.3.5**



Prerequisites



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- ▶ **Learner should be familiar with Math interface**



Prerequisites

- ▶ Learner should be familiar with Math interface
- ▶ If not please access the relevant tutorials on this website
<https://spoken-tutorial.org>



Code Files



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- ▶ The files used in this tutorial are provided in the Code files link



Code Files

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- ▶ **Please download and extract the files**



Code Files

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- ▶ Please download and extract the files
- ▶ Make a copy and use them for practising



Sets



Sets

- ▶ **Set is a collection of distinct elements**



Sets

- ▶ Set is a collection of distinct elements
- ▶ Elements of a set are enclosed within brackets



Sets

- ▶ Set is a collection of distinct elements
- ▶ Elements of a set are enclosed within brackets
- ▶ Math has a separate markup to represent sets



Assignment



Assignment

Using the example Sets:

- ▶ Check if $A \cup (B \cup C)$ is equal to $(A \cup B) \cup C$
- ▶ Subtract set B from set A and write the result



Cross Referencing



Cross Referencing

Cross referencing:



Cross Referencing

Cross referencing:

- ▶ It allows us to navigate to a specific text or object within a document



Cross Referencing

Cross referencing:

- ▶ It allows us to navigate to a specific text or object within a document
- ▶ We can do this by designating numbers to the formulae that we write



Summary

We have learnt how to:

- ▶ **Write Set operations**
- ▶ **Write Factorials**
- ▶ Cross reference **the formulae using numbers**



Assignment



Assignment

- ▶ **Open** Math-assignment.odt **file**
- ▶ **Write the markup for the following factorials**

1.
$$\frac{(n+2)!}{n!}$$

2.
$$\frac{6!}{(2! \times 4!)}$$



Assignment



Assignment

- ▶ **In the Writer document, cross reference the second and third factorial formulae**



About Spoken Tutorial project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ **Conducts workshops using** spoken tutorials
- ▶ **Gives certificates to those who** pass an online test
- ▶ **For more details, please write to** contact@spoken-tutorial.org



Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



Acknowledgements

- ▶ **Spoken Tutorial project is funded by the Ministry of Education, Govt. of India**



About the contributor

- ▶ This tutorial was originally contributed by **DesiCrew Solutions Pvt.Ltd** in 2011
- ▶ www.desicrew.in
- ▶ Thank you for joining

