



Description



This report is based on real data collected during my learning journey on [Khan Academy](#) from March 2024 to January 2025.



I began gathering the data when I realized the amount of content I had covered was becoming quite substantial — and it seemed like a great opportunity to turn it into a meaningful statistics project.



For each course, I created a dedicated Excel workbook. Each workbook included one sheet per unit, and every sheet contained five distinct categories of data: Exercises, Articles, Videos, Quizzes, and Unit Tests.

By the time I completed all the courses, I had compiled 21 Excel files, each with around 10 sheets on average, and each sheet with 5 tables. In total, that amounted to more than a **thousand tables**.



To prepare this data for analysis and reporting in Power BI, I wrote a Python script to reorganize it into a structure suitable for import.



The output of the script is a consolidated file called "**Learning_statistics.xlsx**", which includes just four sheets: **Courses**, **Unit tests**, **Exercises**, and **Articles_Videos**.

Writing this script was far from simple — even with the invaluable help of ChatGPT, it required deep logical thinking and detailed technical planning, both for communicating with ChatGPT and for structuring the code myself.



The decision to combine Articles and Videos into a single table came from experimenting with Power BI's Matrix visual. The Matrix works best when the data exists on a single level of hierarchy, which made this structure the most effective solution for visualization.

The report contains 4 pages: **Description** (the current one), **Courses**, **Details** and **Summary**. You are welcome to visit them!





Khan Academy learning courses that I used to study in 2024 – 2025

Course

Arithmetic	Units 19	1
Basic Geometry And Measurement	Units 14	2
Pre-Algebra	Units 15	3
Algebra Basics	Units 8	4
Algebra 1	Units 16	5
High School Geometry	Units 9	6
Algebra 2	Units 12	7
Trigonometry	Units 4	8
Statistics And Probability	Units 16	9
High School Statistics	Units 7	10
AP® College Statistics	Units 14	11
College Algebra	Units 14	12
Precalculus	Units 10	13
Differential Calculus	Units 6	14
Integral Calculus	Units 5	15
AP® College Calculus AB	Units 10	16
AP® College Calculus BC	Units 12	17
Multivariable Calculus	Units 5	18
Differential Equations	Units 3	19
Linear Algebra	Units 3	20
Course Intro To Computer Science Python	Units 6	21



Course / Unit / Exercise	Course URL	Exercise Problems	Articles	Article Problems	Videos	Total Video Duration	Quizzes	Quiz Problems	Unit Test Problems	Course Challenge Problems
⊕ Arithmetic	🔗	1169	27	218	246	17h 27m 17s	54	271	198	30
⊕ Basic Geometry And Measurement	🔗	614	48	258	172	11h 42m 27s	29	145	147	30
⊕ Pre-Algebra	🔗	839	52	296	293	21h 21m 50s	44	220	177	30
⊕ Algebra Basics	🔗	548	42	240	203	17h 26m 40s	22	112	97	30
⊕ Algebra 1	🔗	769	69	255	333	27h 57m 44s	43	225	176	30
⊕ High School Geometry	🔗	375	63	227	196	18h 34m 44s	26	130	92	30
⊕ Algebra 2	🔗	452	45	169	201	17h 41m 14s	24	121	120	30
⊕ Trigonometry	🔗	147	23	86	82	10h 16m 53s	7	38	42	30
⊕ Statistics And Probability	🔗	673	72	292	325	38h 26m 59s	21	110	160	30
⊕ High School Statistics	🔗	256	13	75	99	9h 16m 07s	17	85	71	30
⊕ AP® College Statistics	🔗	566	41	179	216	22h 03m 39s	35	179	156	30
⊕ College Algebra	🔗	432	51	246	242	20h 04m 42s	23	116	141	30
⊕ Precalculus	🔗	527	54	182	287	27h 38m 04s	28	143	122	30
⊕ Differential Calculus	🔗	474	38	124	270	27h 59m 01s	19	122	114	30
⊕ Integral Calculus	🔗	391	24	94	238	25h 31m 16s	17	104	100	30
⊕ AP® College Calculus AB	🔗	662	59	199	392	40h 01m 59s	30	179	159	30
⊕ AP® College Calculus BC	🔗	826	62	212	485	50h 47m 21s	38	226	200	30
⊕ Multivariable Calculus	🔗	192	77	242	292	24h 59m 34s	14	70	57	30
⊕ Differential Equations	🔗	32			70	11h 08m 42s			0	
⊕ Linear Algebra	🔗	16	2	10	153	32h 59m 07s			0	
⊕ Course Intro To Computer Science Python	🔗	84	40	84	61	3h 41m 26s	20	57	5	
Total		10044	902	3688	4856	477h 06m 46s	511	2653	2334	540



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Courses

208

Units

2 348

Exercises

902

Articles

4 856

Videos

511

Quizzes

540

Course
Challenge
Problems

2 334

Unit Test
Problems

10 044

Exercise
Problems

3 688

Article
Problems

477

Total Video
Hours
(Duration)

2 653

Quiz
Problems

19 259

Problems Solved In Total

