Fitness Baseline Analysis

The CONTENTS Procedure

Data Set Name	STATDATA.FITNESS	*Observations*	31
Member Type	DATA	*Variables*	10
Engine	V9	*Indexes*	0
Created	01/05/2026 14:33:20	*Observation Length*	80
Last Modified	01/05/2026 14:33:20	*Deleted Observations*	0
Protection		*Compressed*	NO
Data Set Type		*Sorted*	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	1635
Obs in First Data Page	31
Number of Data Set Repairs	0
Filename	/home/u64046684/ESTAT0/data/fitness.sas7bdat
Release Created	9.0401M8
Host Created	Linux
Inode Number	10742677758
Access Permission	rw-r--r--
Owner Name	u64046684
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes

#	*Variable*	*Type*	*Len*
4	Age	Num	8
2	Gender	Char	1
9	Maximum_Pulse	Num	8
1	Name	Char	8
6	Oxygen_Consumption	Num	8
10	Performance	Num	8
8	Rest_Pulse	Num	8
3	RunTime	Num	8
7	Run_Pulse	Num	8
5	Weight	Num	8

The proc contents statement was used to understand the type and length of variables as well as other important info about the dataset

Listing 1. Participant-Level Fitness Data (First 10 Records)

Obs	Name	Gender	RunTime	Age	Weight	Oxygen_Consumption	Run_Pulse	Rest_Pulse	Maximum_Pulse	Performance
1	Donna	F	8.17	42	68.15	59.57	166	40	172	90
2	Gracie	F	8.63	38	81.87	60.06	170	48	186	94
3	Luanne	F	8.65	43	85.84	54.30	156	45	168	83
4	Mimi	F	8.92	50	70.87	54.63	146	48	155	67
5	Chris	M	8.95	49	81.42	49.16	180	44	185	72
6	Allen	M	9.22	38	89.02	49.87	178	55	180	92
7	Nancy	F	9.40	49	76.32	48.67	186	56	188	64
8	Patty	F	9.63	52	76.32	45.44	164	48	166	56
9	Suzanne	F	9.93	57	59.08	50.55	148	49	155	43
10	Teresa	F	10.00	51	77.91	46.67	162	48	168	54

This listing shows the first 10 observations of the dataset

Table 1. Baseline Summary Statistics for WEIGHT

The MEANS Procedure

Analysis Variable : Weight								
N	Minimum	Maximum	Mean	Median	Std Dev	Lower Quartile	Upper Quartile	Std Error
31	59.08	91.63	77.44	77.45	8.33	73.03	82.78	1.50

From Table 1. it's clear the mean and median are somewhat the same, signaling a posible symetric distribution of the Weight variable.

Figure 1. Histogram Distribution of AGE with Normal Overlay

The UNIVARIATE Procedure

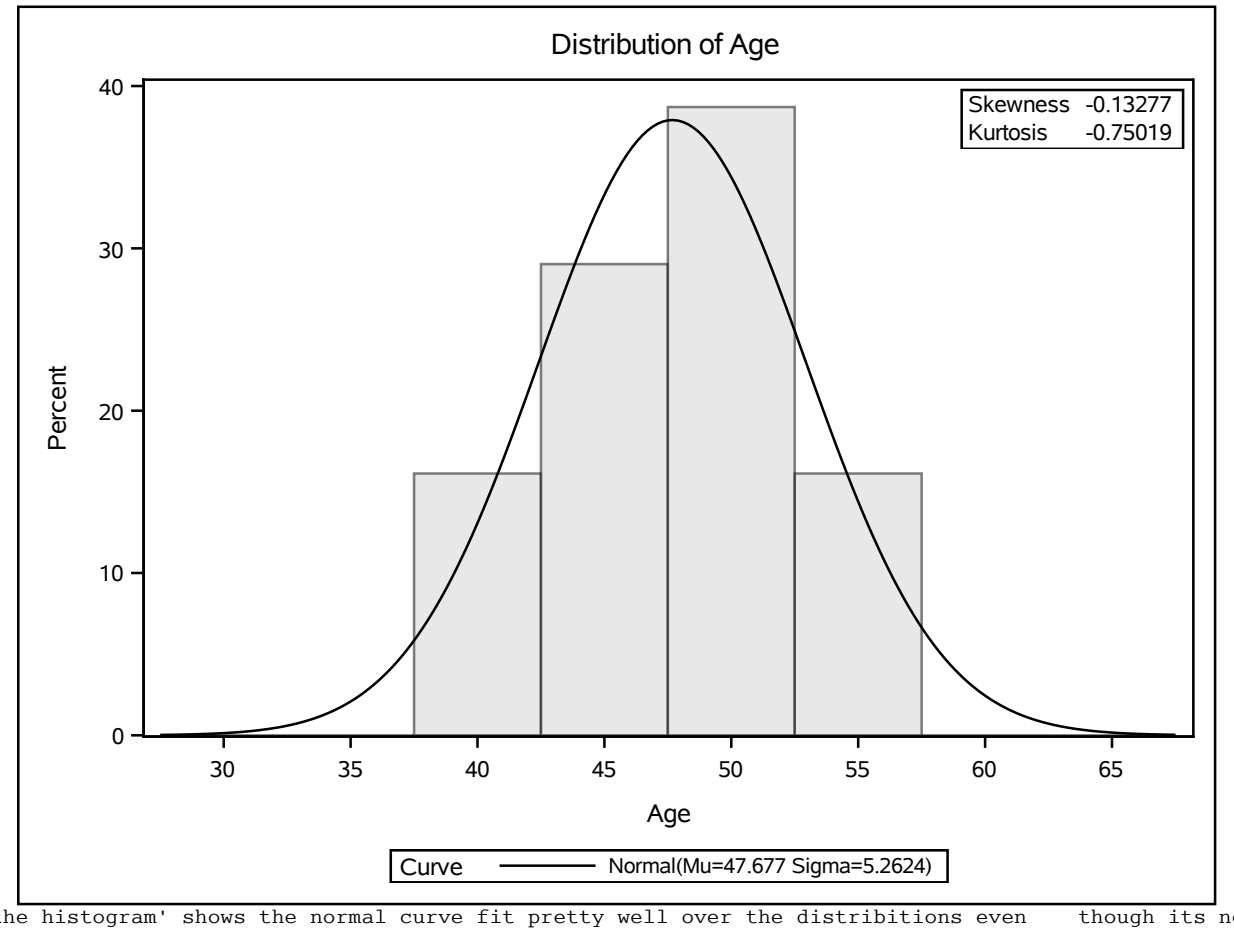

figure 1. 'the histogram' shows the normal curve fit pretty well over the distribitions even though its not totally perfect. We could say the distribution is normal

Figure 2. Normal Probability Plot for AGE

The UNIVARIATE Procedure

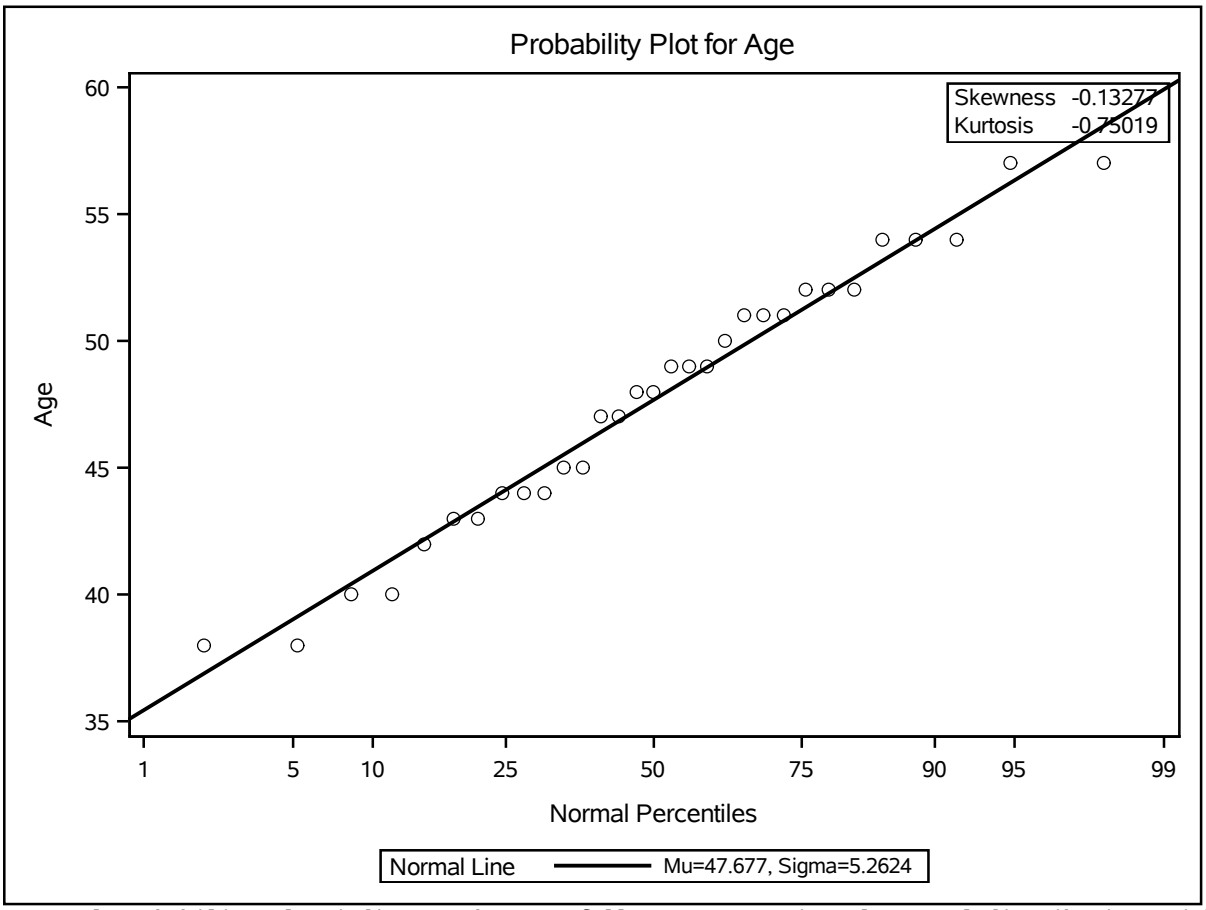

Figure 2., the normal probability plot indicates that AGE follows an approximately normal distribution, with points closely aligned to the reference line and minimal skewness.