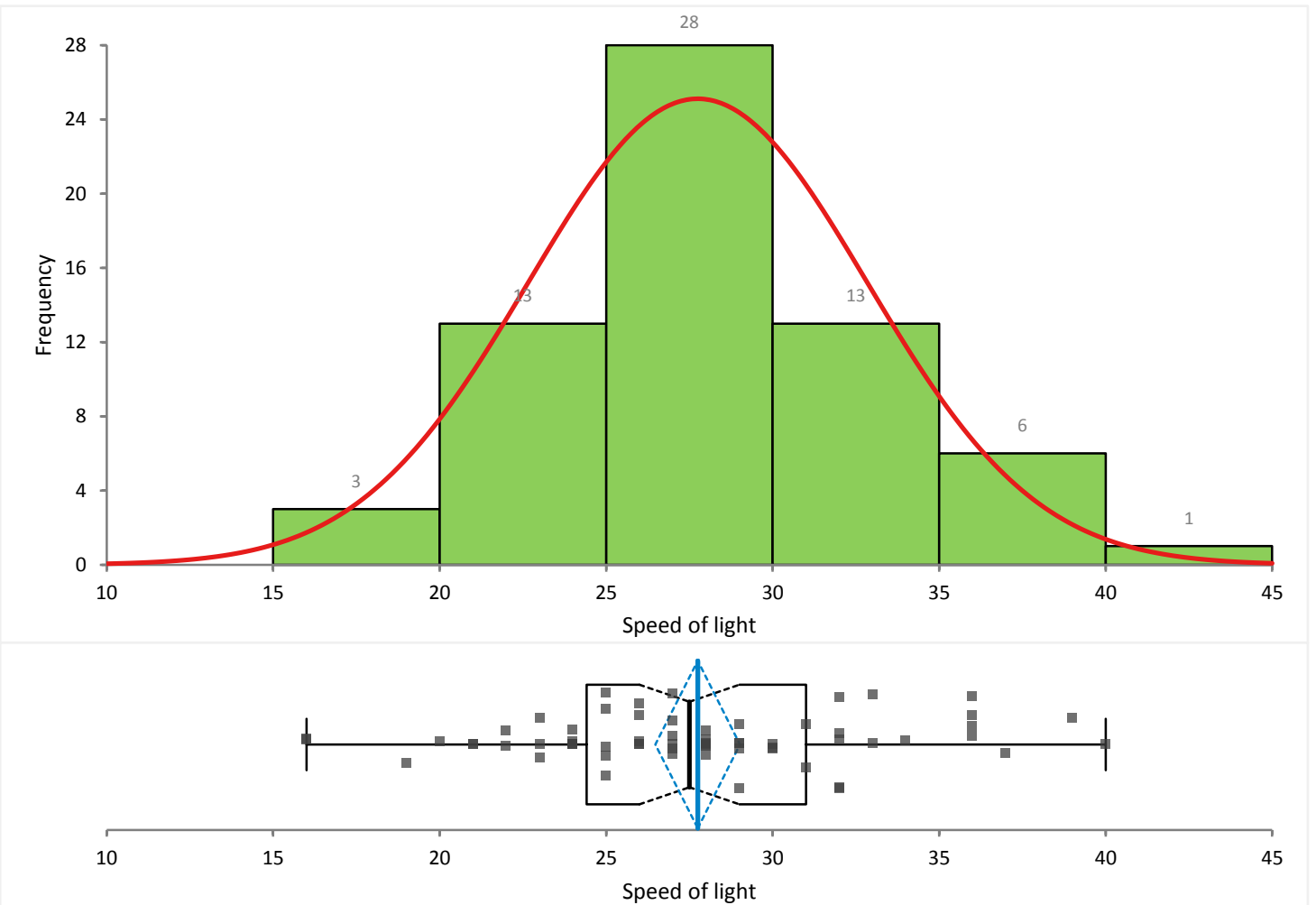


Data A1:A67

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Descriptives



N | 64

	Mean	Mean SE	SD	Variance	Skewness	Kurtosis
Speed of light	27.8	0.64	5.1	25.8	0.2	0.15

	Minimum	1st quartile	Median	3rd quartile	Maximum	IQR
Speed of light	16	24.4	27.5	31.0	40	6.6

Quantile	Speed of light
0.100	21.8
0.200	24.0
0.300	25.0
0.400	26.1
0.500	27.5
0.600	28.0
0.700	30.0
0.800	32.0
0.900	36.0

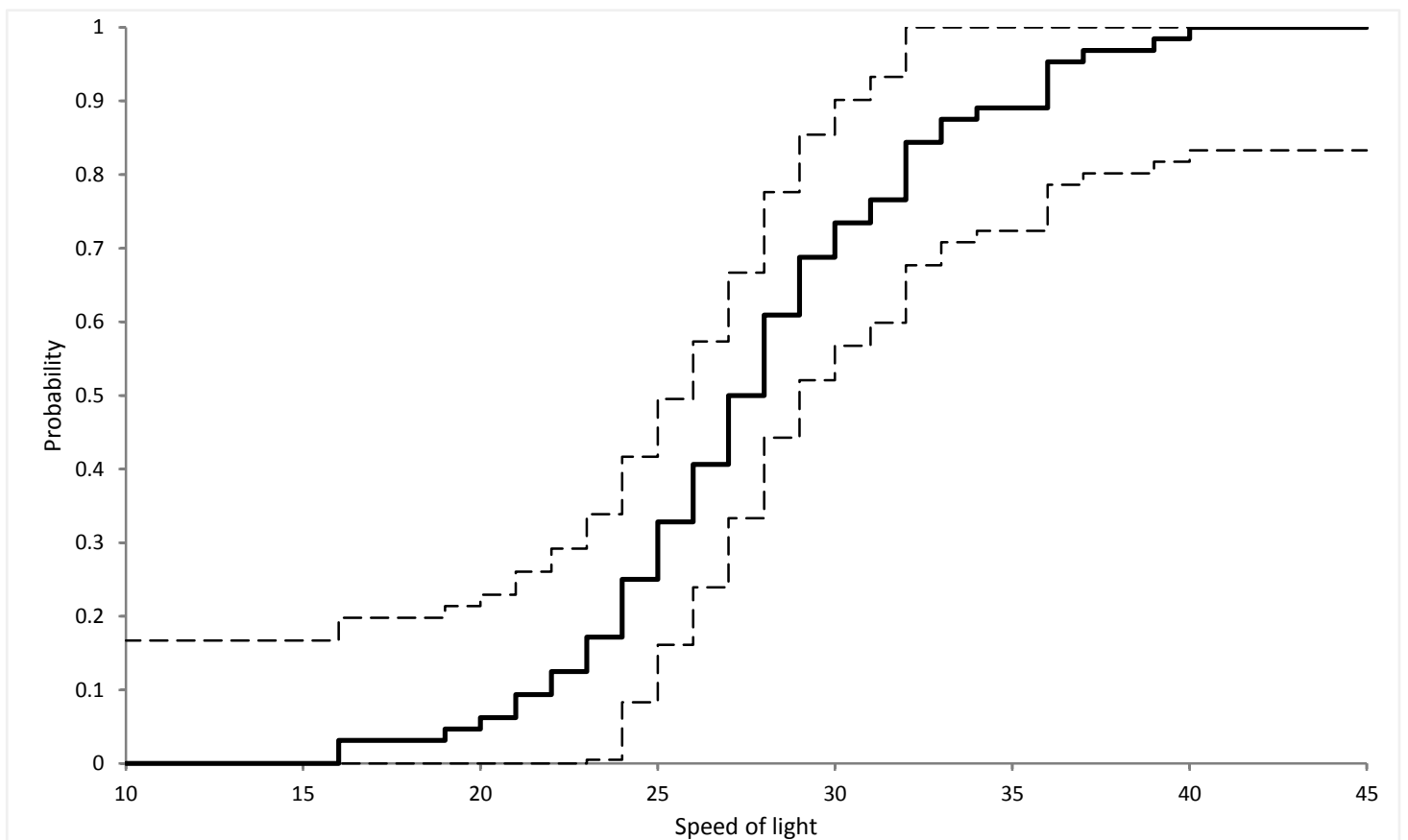
Data A1:A67

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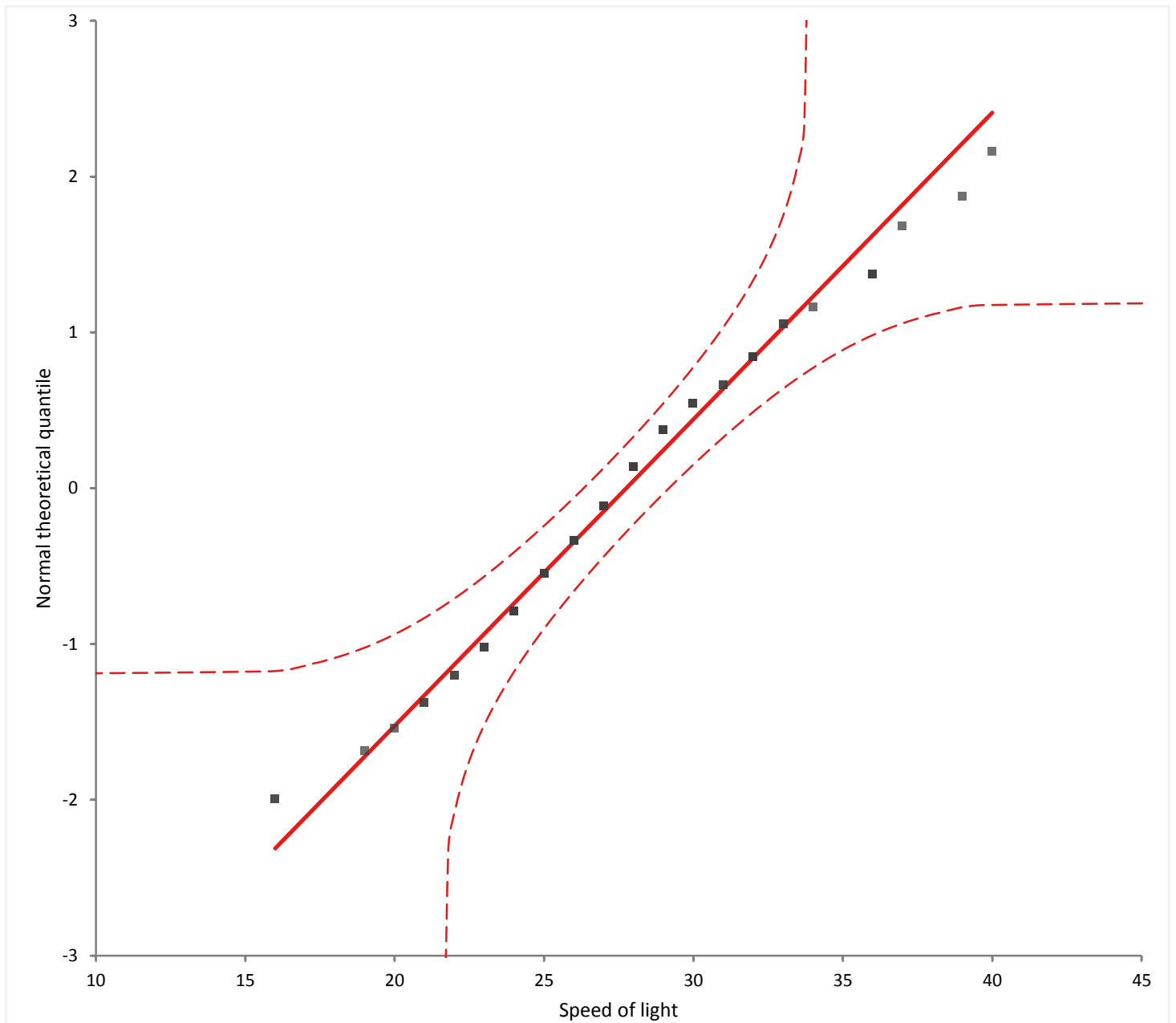
Frequency Distribution

Class	Frequency	Relative frequency	Density	Cumulative frequency	Cumulative relative frequency
≥15 to <20	3	0.047	0.0094	3	0.047
≥20 to <25	13	0.203	0.0406	16	0.250
≥25 to <30	28	0.438	0.0875	44	0.688
≥30 to <35	13	0.203	0.0406	57	0.891
≥35 to <40	6	0.094	0.0188	63	0.984
≥40 to <45	1	0.016	0.0031	64	1.000

Cumulative Distribution Function



Normality



Shapiro-Wilk test

W statistic	0.98
p-value	0.6082 ¹

H0: $F(Y) = N(\mu, \sigma)$

The distribution of the population is normal with unspecified mean and standard deviation.

H1: $F(Y) \neq N(\mu, \sigma)$

The distribution of the population is not normal.

¹ Do not reject the null hypothesis at the 10% significance level.

Distribution: Speed of light

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Location

Mean	27.8
95% CI	26.5 to 29.0
SE	0.64

Student's t test

Hypothesized value	29.97
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t statistic	-3.49
DF	63
p-value	0.0009 ¹

H0: $\mu = 29.97$

The mean of the population is equal to 29.97.

H1: $\mu \neq 29.97$

The mean of the population is not equal to 29.97.

¹ Reject the null hypothesis in favour of the alternative hypothesis at the 10% significance level.