



Statistics - Standard Deviation - Mean, SD and Range to Percent in Three Sections

1

The test scores in a large class are normally distributed with a mean of 70 and a standard deviation of 10. What percentage of scores are between 70 and 100?

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A	83.9%	B	15.7%
C	49.8%	D	50.2%

2

The daily high temperatures in degrees are normally distributed with a mean of 18 and a standard deviation of 2. What percentage of days are between 12 and 18?

What percentage of days are between 12 and 18?

A	47.7%	B	50.2%
C	49.8%	D	50%

3

The battery lifetimes in hours are normally distributed with a mean of 60 and a standard deviation of 5. What percentage of batteries are between 60 and 75?

What percentage of batteries are between 60 and 75?

A	49.8%	B	50.2%
C	15.7%	D	83.9%

4

The battery lifetimes in hours are normally distributed with a mean of 40 and a standard deviation of 4. What percentage of batteries are between 32 and 44?

What percentage of batteries are between 32 and 44?

A	68.2%	B	81.8%
C	18.2%	D	83.9%

5

The test scores in a large class are normally distributed with a mean of 75 and a standard deviation of 4. What percentage of scores are between 75 and 87?

What percentage of scores are between 75 and 87?

A	15.7%	B	50.2%
C	83.9%	D	49.8%

6

The adult heights in centimetres are normally distributed with a mean of 160 and a standard deviation of 8. What percentage of people are between 136 and 160?

What percentage of people are between 136 and 160?

A	50%	B	50.2%
C	47.7%	D	49.8%

7

The test scores in a large class are normally distributed with a mean of 70 and a standard deviation of 5. What percentage of scores are between 65 and 80?

What percentage of scores are between 65 and 80?

A	95.4%	B	47.7%
C	18.2%	D	81.8%

8

The battery lifetimes in hours are normally distributed with a mean of 50 and a standard deviation of 5. What percentage of batteries are between 40 and 55?

What percentage of batteries are between 40 and 55?

A	18.2%	B	68.2%
C	83.9%	D	81.8%