



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

**1**

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 44 and 52?

What percentage of batteries are between 44 and 52?

A	2.1%	B	15.7%
C	84.3%	D	49.8%

**2**

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 55 and 65?

What percentage of scores are between 55 and 65?

A	13.6%	B	15.9%
C	15.7%	D	84.3%

**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 45 and 55?

What percentage of batteries are between 45 and 55?

A	15.9%	B	13.6%
C	15.7%	D	84.3%

**4**

The daily high temperatures in degrees are normally distributed with a mean of 22 and a standard deviation of 2. What percentage of days are between 22 and 26?

What percentage of days are between 22 and 26?

A	81.8%	B	13.6%
C	47.7%	D	52.3%

**5**

The adult heights in centimetres are normally distributed with a mean of 165 and a standard deviation of 10. What percentage of people are between 145 and 165?

What percentage of people are between 145 and 165?

A	34.1%	B	47.7%
C	49.8%	D	52.3%

**6**

The adult heights in centimetres are normally distributed with a mean of 165 and a standard deviation of 10. What percentage of people are between 175 and 195?

What percentage of people are between 175 and 195?

A	15.7%	B	84.3%
C	2.1%	D	49.8%

**7**

The daily high temperatures in degrees are normally distributed with a mean of 22 and a standard deviation of 3. What percentage of days are between 16 and 22?

What percentage of days are between 16 and 22?

A	52.3%	B	47.7%
C	34.1%	D	49.8%

**8**

The daily high temperatures in degrees are normally distributed with a mean of 20 and a standard deviation of 3. What percentage of days are between 20 and 26?

What percentage of days are between 20 and 26?

A	81.8%	B	47.7%
C	13.6%	D	52.3%