



## Statistics - Standard Deviation - Mean, SD and Range to Percent in One Section

**1**

The daily high temperatures in degrees are normally distributed with a mean of 18 and a standard deviation of 4. What percentage of days are between 6 and 10?

What percentage of days are between 6 and 10?

A	2.3%	B	97.9%
C	2.1%	D	15.7%

**2**

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 48?

What percentage of batteries are between 44 and 48?

A	13.6%	B	15.7%
C	86.4%	D	47.7%

**3**

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 20 and 22?

What percentage of days are between 20 and 22?

A	47.7%	B	86.4%
C	15.7%	D	13.6%

**4**

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 155?

What percentage of people are between 145 and 155?

A	13.6%	B	86.4%
C	15.7%	D	47.7%

**5**

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 60 and 70?

What percentage of scores are between 60 and 70?

A	68.2%	B	34.1%
C	65.9%	D	47.7%

**6**

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 20 and 22?

What percentage of days are between 20 and 22?

A	68.2%	B	65.9%
C	34.1%	D	47.7%

**7**

The battery lifetimes in hours are normally distributed with a mean of 50 and a standard deviation of 4. What percentage of batteries are between 58 and 62?

What percentage of batteries are between 58 and 62?

A	97.9%	B	15.7%
C	2.1%	D	2.3%

**8**

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 75 and 80?

What percentage of scores are between 75 and 80?

A	86.4%	B	13.6%
C	47.7%	D	15.7%