

**Warm Up**

## Empirical Rule

(applicable only for mound-shaped data)

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The **Empirical Rule** states that if data are approximately normally distributed, then

Approximately \_\_\_\_\_% of the data lie within one standard deviation of the mean,

Approximately \_\_\_\_\_% of the data lie within two standard deviations of the mean, and

Approximately \_\_\_\_\_% of the data lie within three standard deviations of the mean.

### PRACTICE

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Data are distributed normally with a mean of 12 cm and a standard deviation of 1.3 cm, then approximately 95% of the data lie between \_\_\_\_\_ cm and \_\_\_\_\_ cm.

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**MAIN IDEAS:** List the Main Ideas for Today's Lesson

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