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VIDEO GUIDE · UNIT 0 · TOPIC 0.3

The 68–95–99.7 Rule

Watch the lesson

Name _____ Class _____ Date _____

NOTES: FILL IN THE BLANKS WHILE YOU WATCH

1. In a _____, the standard deviation tells us what percentage of scores fall within a given distance of the mean.
2. About _____ of scores fall within one standard deviation of the mean.
3. About _____ fall within two standard deviations, and about _____ fall within three.
4. This is the _____, also called the 68-95-99.7 rule.
5. Because a normal distribution is symmetrical, scores outside a range split evenly: of the 32% outside one standard deviation, half (_____) are more than one standard deviation above the mean.

CHECK YOUR UNDERSTANDING

1. IQ scores are normally distributed with a mean of 100 and a standard deviation of 15. About what percentage of people score between 100 and 115?

(A) 16%
(B) 68%
(C) 34%
(D) 50%

2. Reaction times are normally distributed with a mean of 300 ms, and about 95% of participants respond between 250 and 350 ms. What is the standard deviation?

(A) 50 ms
(B) 25 ms
(C) 100 ms
(D) 12.5 ms

3. Memory scores are normally distributed with a mean of 50 and a standard deviation of 10. About what percentage of participants score above 70?

(A) 2.5%
(B) 5%
(C) 16%
(D) 0.3%

NOTES

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