



Warm Up

Binomial vs. Normal Distributions

(How to Recognize Each One)

Consider the two following scenarios. Select which one involves a binomial distribution and which one involves a normal distribution.

Scenario 1: An Applied Statistics teacher gave a midterm exam to a class of 25 students and graded it on an approximately normal curve such that about 7.5% of the students make an A. What is the probability that 10 or more students make an A?

Scenario 2: An Applied Statistics teacher gave a midterm exam to a class of 25 students and graded it on an approximately normal curve such that the mean score is 75 and the standard deviation is 8 points. What is the probability that a randomly selected student makes an A (90 – 100 points).

1. Which scenario is using a binomial distribution? _____
2. Which one is using a normal distribution? _____
3. What were the clues?

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