

1  
On a science test, the scores were normally distributed with a mean score of 78 and a standard deviation of 3. What is the probability that a score falls in the

20  
The number of hours that Eric watches TV each week is normally distributed with a mean of 27 hours and a standard deviation of 90 minutes. Calculate the probability that next week, Eric will watch 26 hours of television.

4  
Math scores on a test in Nathan's class are normally distributed with a mean of 82 and a standard deviation of 1.5. If Nathan scored an 85, what is the probability that another student scored higher than he?

**ANSWER**

NORMAL DISTRIBUTION BINGO				
11	95.45%	90.88%	9	7.9%
2.28%	91	5.48%	17	68.27%
89	45	57.07%	84%	42
1.67	81.86%	30	74.75%	15.87%
1.5	6	76	8.75	65.63%

# Normal DISTRIBUTION

## POWERPOINT BINGO



# NORMAL DISTRIBUTION

## PowerPoint Bingo!

**Objective:** Students will practice solving problems related to normal distribution, standard deviation, z-scores, empirical rule, and probability under a standard distribution curve with this PowerPoint Bingo Game.

**Directions:**

- 1) Distribute a student recording worksheet and bingo board to each student. There are 30 boards included; if you have more than 30 students, simply repeat a board.
- 2) Open the PowerPoint game to run. Click on any circle to choose a problem. Students love coming up to the board (or computer) to select a problem, too! Students solve the problem at their desk on their worksheet. You can also choose to work through the problems with the students as they come up, or choose a student to work the problem at the board while the other students work at their desk.
- 3) Click "Answer" to display the answer. Students look for this answer on their bingo board and cross it off. Click back to return to the bingo circles screen and repeat until there is a winner. There are only 20 problems on the worksheet because there is almost always a winner by this point. If you need to keep going, they can continue their work on a separate sheet of notebook paper. I play until there are multiple winners.

A student wins if they get 5 in a row, column, or diagonal. I typically awarded lollipops 😊.

The image shows a collection of game materials. On the left is a purple-bordered title slide with the text "NORMAL Distribution B•I•N•G•O" and a row of colorful circles. In the center are two problem cards: a red one about a science test and a green one about shoe sizes. On the right is a yellow-bordered card about TV watching hours. At the bottom right is a "NORMAL DISTRIBUTION BINGO" board with a grid of numbers and percentages.

**Problem 1 (Red Card):** On a science test, the scores were normally distributed with a mean score of 78 and a standard deviation of 8. What is the probability that a given score fall in the range between 72 and 84?

**Problem 9 (Green Card):** Shoe sizes are normally distributed with a mean of 9. If Jenna has a shoe size of 6 and her z-score is -2, find the standard deviation.

**Problem 20 (Yellow Card):** The number of hours that Eric watches TV each week is normally distributed with a mean of 27 hours and a standard deviation of 90 minutes. Calculate the probability that in the next week, Eric will watch more than 26 hours of television.

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