

Smartboard Jeopardy

The Jeopardy board interface includes two scorekeepers at the top, each with a '00' score and a numeric keypad (0-9). The word 'Jeopardy' is centered. Below are five category buttons labeled 'Category 1' through 'Category 5'. A central purple button is positioned above a 5x5 grid of question value buttons (100, 200, 300, 400, 500).

Lesson notes



L. Harvey Almarode
 Instructor
 Memorial Hall 3625D
 MSC 6907
 almarohl@jmu.edu Harrisonburg, VA 22804
 almarohl.googlepages.com 540-568-4550

Title Page

Lesson Notes

Directions for using this Smartboard Jeopardy template.

Double click on the Category names to edit and change.

Edit each of the Question pages with the Question and Answer. You must move the purple reveal box to enter the correct response, then move the reveal box over the answer until it is covered. After all questions are entered Save As ... and give it another name. This helps preserve the template.

The blank purple button in the center of the Jeopardy board is an Infinite Cloner and is used to place over the question button when you return to the Jeopardy Board. This shows that this button has been chosen and can not be chosen again.

The white cells are for the score keeper to keep score of the teams. Drag the numbers to the cell to change score. Drag the white rectangle to the cell to delete score.



Lesson Notes

Team 1 Score: 1900

Team 2 Score: 2200

Jeopardy

Categories: Sets + Complex #'s, Quadratics, Radicals, Fractions, & Exponents, Systems of Equations, Matrices + Probability

Values: 100, 200, 300, 400, 500

The board features a central title 'Jeopardy' and two score boxes for Team 1 (1900) and Team 2 (2200). Below the scores are two numeric displays for each team, showing digits 0-9. The main board is a grid of question categories and values. The categories are: Sets + Complex #'s, Quadratics, Radicals, Fractions, & Exponents, Systems of Equations, and Matrices + Probability. The values are 100, 200, 300, 400, and 500. The 300 value in the Matrices + Probability category is crossed out with a blue 'X'.

Jeopardy Board

Category 1 - 100

Use set notation to write the elements of the set.

1. D is the set of days that start with S.
2. Is Sunday $\in D$?

1. $D = \{\text{Saturday, Sunday}\}$
2. Yes

move to reveal

Jeopardy Board

Category 1-100

Category 1 - 200

Simplify the Expression

$$(3 + 2i) - (4 - 2i)$$

$$-1 + 4i$$

move to reveal

Jeopardy Board

Category 1-200

Category 1 - 300

Let $U = \{1, 2, 4, 5, 6, 7, 9, 10, 12\}$

$$A = \{1, 2, 4, 7, 9\}$$

$$B = \{1, 2, 4, 5, 7, 9, 12\}$$

1. Find B' 2. Find $A \cap B$ 3. Is $A \subset B$?

1. $B' = \{6, 10\}$
2. $A \cap B = \{1, 2, 4, 7, 9\}$
3. Yes

move to reveal

Jeopardy Board

Category 1-300

Category 1 - 400

Simplify: $(-2 + 3i)(-3 - 2i)$ $12 - 5i$

move to reveal

d

Category 1-400

Category 1 - 500

Simplify $\frac{2i}{4 - 2i}$ $\frac{-1+2i}{5}$

move to reveal

Jeopardy Board

Category 1-500

Category 2 - 100

Find the parabola have a max or min?
Find the vertex of the parabola:

$$f(x) = 2x^2 - 8x - 5$$

Minimum
(2, -13)

move to reveal

Jeopardy Board

Category 2-100

Category 2 - 200

Solve the equation.

$$f(x) = x^2 - 5x + 6$$

$x = 3, 2$

move to reveal

Jeopardy Board

Category 2-200

Category 2 - 300

Solve the equation

$$z^2 - 3z - 7 = 0$$

$$z = 3 \pm \sqrt{37} / 2$$

move to reveal

Jeopardy Board

Category 2-300

Category 2 - 400

Convert the parabola to vertex form. Then, state the vertex.

$$3g^2 - 12g = -4$$

$$y = (x - 2)^2 - 8$$

(2, -8)

move to reveal

Board

Category 2-400

Category 2 - 500

Write the equation for the parabola that has a vertex of (-1, 1) and passes through (2, 4)

$$y = 1/3 (x+1)^2 + 1$$

move to reveal

Jeopardy Board

Category 2-500

Category 3 - 100

Simplify:

$$2\sqrt{5} + \sqrt{45}$$

$$5\sqrt{5}$$

move to reveal

Jeopardy Board

Category 3-100

Category 3 - 200

Simplify

$$\frac{3x^5y^3}{9x^7y}$$

$$\frac{y^2}{3x^2}$$

move to reveal

Jeopardy Board

Category 3-200

Category 3 - 300

Simplify

$$\sqrt{25r^5t^4u^2}$$

$$5r^2t^2u\sqrt{r}$$

move to reveal

Jeopardy Board

Category 3-300

Category 3 - 400

Simplify

$$\frac{3x}{2xy} + \frac{4xy}{3x^2}$$

$$\frac{9x^2 + 8xy^2}{6x^2y}$$

move to reveal

Jeopardy Board

Category 3-400

Category 3 - 500

Simplify

$$\frac{3}{3+\sqrt{5}}$$

$$\frac{9-3\sqrt{5}}{4}$$

move to reveal

Jeopardy Board

Category 3-500

Category 4 - 100

Solve using substitution

$$3x - 5y = -8$$

$$x + 2y = 1$$

 $(-1, 1)$

move to reveal

Jeopardy Board

Category 4-100

Category 4 - 200

Solve using elimination

$$7x + y = 9$$

$$5x - y = 15$$

 $(2, -5)$

move to reveal

Board

Category 4-200

Category 4 - 300

Solve by elimination

$$-4y - 11x = 36$$

$$20 = -10x - 10y$$

 $(-4, 2)$

move to reveal

Category 4-300

Category 4 - 400

Solve by substitution

$$3y - 2x = 11$$

$$2y + 4x = 18$$

 $(2, 5)$

move to reveal

Category 4-400

Category 4 - 500

The Mountaineers Club held two camping trips during the summer. The club rented 5 tents and 1 cabin for 30 members who went on the first trip. The club rented 4 tents and 2 cabins for the 36 members who went on the second trip. If the tents and cabins were filled to capacity on both trips, how many people can each tent and each cabin accommodate.

Tent - 4
Cabin - 10

move to reveal

Board

Category 4-500

Category 5 - 100

State the dimensions of the following matrices

$$A = \begin{bmatrix} 2u \\ v^2 \\ u \end{bmatrix}$$

$$B = [1 \quad -2 \quad -3]$$

$$C = \begin{bmatrix} 0 & -1 \\ 6 & 0 \\ 2 & 3 \end{bmatrix}$$

A = 3x1
B = 1 x 3
C = 3 x 2

move to reveal

Board

Category 5-100

Category 5 - 200

For the school lunch there are 3 options for the main meal, 6 options for a side dish, 3 options for toppings, and 4 options for a drink. How many lunch combinations can be made?

216

move to reveal

Jeopardy Board

Category 5-200

Category 5 - 300

Perform the following operation:

$$-3(A - B)$$

$$A = \begin{bmatrix} -5 & 2 & -2 \\ 4 & -2 & 0 \end{bmatrix}$$

$$B = \begin{bmatrix} 6 & -5 & -6 \\ 1 & 3 & -3 \end{bmatrix}$$

$$\begin{bmatrix} 33 & -21 & -12 \\ -9 & 15 & -9 \end{bmatrix}$$

move to reveal

Category 5-300

Category 5 - 400

An art gallery curator wants to select four paintings out of 20 to put on display. How many groups of four paintings can be chosen?

4845

move to reveal

board

Category 5-400

Category 5 - 500

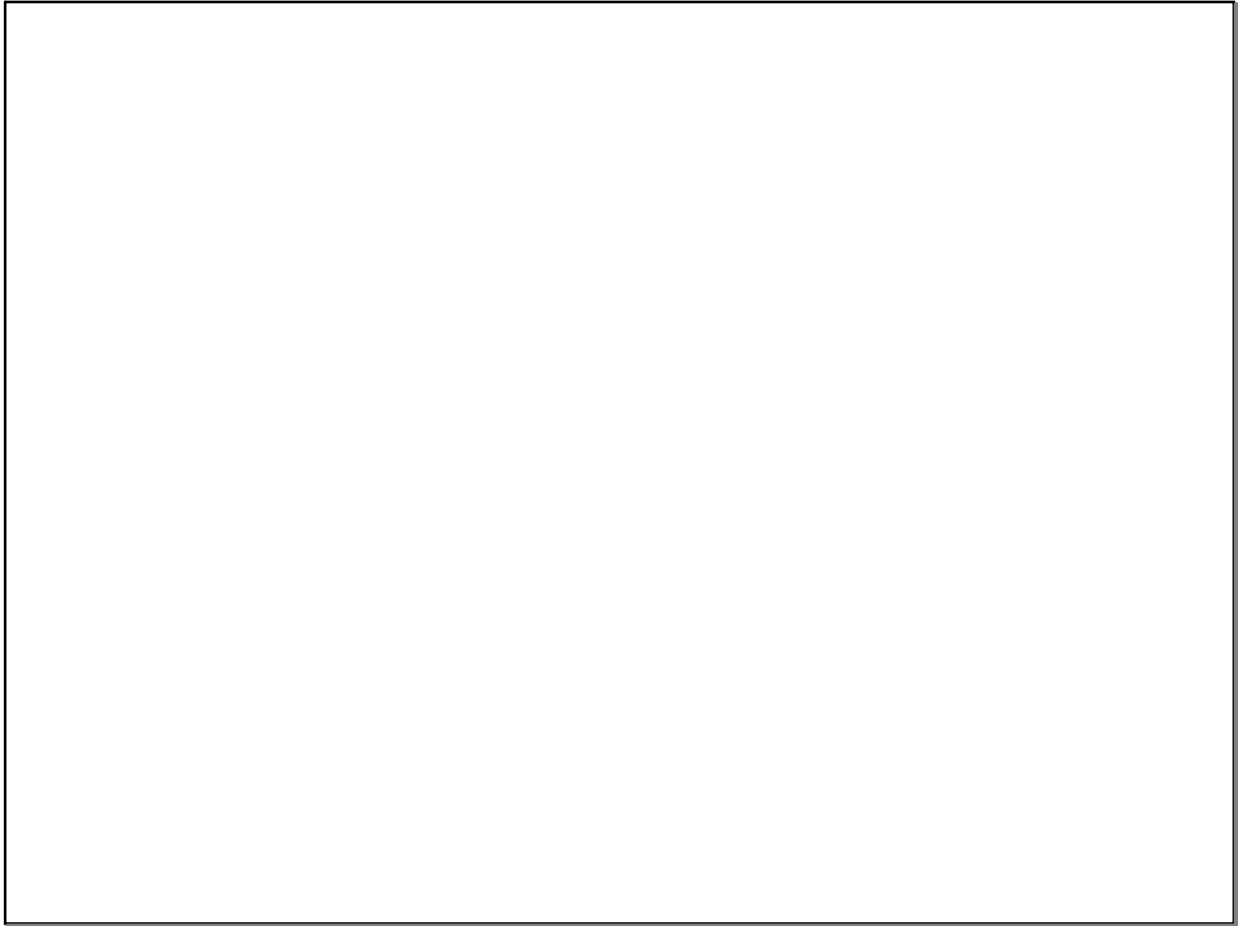
Dan has 12 books on his shelf that he has not read, including 7 novels and 5 biographies. If he wants to take four books with him on vacation, what is the probability that he randomly selects two novels and two biographies.

14/33 or 42.4%

move to reveal

Jeopardy Board

Category 5-500



Sep 17-9:48 AM