

# Slope or Broke.

A 2 – 4 player game

Set-up: Each player (or team) starts with \$200 as follows – 5 \$1 bills, 3 \$5 bills, 4 \$10 bills, 1 \$20 bill, and 1 \$100 bill. Shuffle playing cards and place face down on the table.

On each turn: Draw a card. If the card is a problem card, read the problem to the player on your left. If the player answers correctly, they receive money from the bank. If the player answers incorrectly, they pay money to you. If the card is non-problem card, simply follow the instructions on the card.

Payment amounts for problem cards:

Positive answer = \$1

Negative answer = \$5

Zero = \$10

Undefined = \$20

Game ends when the deck of cards is depleted, when a player goes broke, or after a set amount of time. The player with the most money wins.

|       |                                                                      |       |                                                                      |
|-------|----------------------------------------------------------------------|-------|----------------------------------------------------------------------|
|       | <b>Playing Cards</b>                                                 | $-2$  | Slope of the line passing through the points $(5, -2)$ and $(1, 6)$  |
| 0     | Slope of the line passing through the points $(2, 5)$ and $(5, 5)$   | $2/3$ | Slope of the line passing through the points $(4, 3)$ and $(-2, -1)$ |
| $2/5$ | Slope of the line passing through the points $(-4, 3)$ and $(1, 5)$  | $-2$  | Slope of the line passing through the points $(-1, 6)$ and $(2, 0)$  |
| 1     | Slope of the line passing through the points $(3, 3)$ and $(-3, -3)$ | $1/4$ | Slope of the line passing through the points $(1, 2)$ and $(9, 4)$   |

|       |                                                                |      |                                                                    |
|-------|----------------------------------------------------------------|------|--------------------------------------------------------------------|
| 6     | Determine the slope of the line with equation $y = 6x + 1$     | -3   | Determine the slope of the line with equation $y = 9 - 3x$         |
| -5/4  | Determine the slope of the line with equation $5x + 4y = 20$ . | 2/3  | Determine the slope of the line with equation $2x - 3y = 15$ .     |
| 0     | Determine the slope of the line with equation $y = 5$          | 4    | Slope of the line containing the points (4, 6) and (2, -2)         |
| -7/11 | Slope of the line containing points (-5, 3) and (6, -4)        | -7/8 | Slope of the line passing containing the points (-3, 7) and (5, 0) |

|    |                                                                                         |      |                                                                                                               |
|----|-----------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|
| 2  | Slope of the line containing the points $(0, 6)$ and $(-5, -4)$                         | 8    | Compute $x$ if the slope of the line containing the points $(6, 2)$ and $(x, 8)$ is 3                         |
| 18 | Compute $y$ if the slope of the line containing the points $(-5, y)$ and $(3, 5y)$ is 9 | 49   | A jet airplane climbs 19.6 ft for every 40 ft it moves horizontally. Find the slope of the line as a percent. |
| 1  | A line contains points $(a, -b)$ and $(b, -a)$ , where $a \neq b$ . Find the slope.     | 2    | Find the slope of the line that passes through the points $(-1, 0)$ and $(3, 8)$                              |
| 0  | Find the slope of the line that passes through the points $(2, 0)$ and $(2, 4)$         | Und. | Find the slope of the line that passes through the points $(7, 4)$ and $(-9, 4)$                              |

|       |                                                                                              |        |                                                                                                    |
|-------|----------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------|
| 2     | What is the slope of the line parallel to the line whose equation is given by $-y = -2x + 4$ | $-1/4$ | What is the slope of the line perpendicular to the line whose equation is given by $-2y = -8x + 9$ |
| $8/7$ | What is the slope of the line $-7y + 8x = 9$                                                 | 0      | What is the slope of the line $y = 9$                                                              |
| Und.  | What is the slope of the line $x = -5$                                                       | $-3$   | Find the slope of a line parallel to the line with equation $3x + y = 5$                           |
| $1/3$ | Find the slope of a line parallel to the line with equation $x - 3y = 6$                     | $-1/2$ | Find the slope of a line perpendicular to the line with equation $4x - 2y = 7$                     |

|                |                                                                                 |                |                                                                            |
|----------------|---------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------|
| $\frac{2}{3}$  | Find the slope of a line perpendicular to the line with equation $3x + 2y = -2$ | 2              | Find the slope of a line parallel to a line with equation $2x - y + 6 = 0$ |
| $-\frac{1}{2}$ | Find the slope of a line perpendicular to a line with equation $2x - y + 6 = 0$ | 3              | Determine the slope of the line $y = 3x + 5$                               |
| -2             | Determine the slope of the line $y = -2x + 7$                                   | 1              | Determine the slope of the line $y = x - 4$                                |
| 0              | Determine the slope of the line $y = 3$                                         | $\frac{3}{10}$ | Slope of the line passing through the points $(-3, -2)$ and $(7, 1)$       |

|  |                                                        |  |                                                        |
|--|--------------------------------------------------------|--|--------------------------------------------------------|
|  | You lose a turn                                        |  | You lose a turn                                        |
|  | Give \$50 to all other players                         |  | Give \$50 to all other players                         |
|  | Give \$50 to the player with the least amount of money |  | Give \$50 to the player with the least amount of money |
|  | Give 50% of your cash to the player on your right      |  | Give 50% of your cash to the player on your left       |

|  |                                            |  |                                                  |
|--|--------------------------------------------|--|--------------------------------------------------|
|  | Collect double on your next correct answer |  | Collect a \$20 bonus on your next correct answer |
|  | Give 50% of your cash back to the bank     |  | Give 50% of your cash back to the bank           |
|  | All other players give you \$50            |  | All other players give you \$50                  |
|  | Choose one player to give you \$50         |  | Choose one player to give you \$50               |

|  |                                                                   |  |                                                                    |
|--|-------------------------------------------------------------------|--|--------------------------------------------------------------------|
|  | Take another turn                                                 |  | Take another turn                                                  |
|  | Choose another player to lose a turn                              |  | Choose another player to lose a turn                               |
|  | Every player passes all of their cash to the player on their left |  | Every player passes all of their cash to the player on their right |
|  | Collect \$50 from the bank                                        |  | Collect \$50 from the bank                                         |