

Linear Equation "BULLS EYES!"

Name: _____ Date: _____ Per: _____

Directions: Write each equation in slope-intercept form given the slope and y-intercept.

Slope & y-intercept

Slope	$m = 1$	$b = -9$
Slope	$m = -2$	$b = 8$
Slope	$m = -4/3$	$b = 0$
Slope	$m = 1/2$	$b = -3$
Slope	$m = -3$	$b = -4$

Standard Form

$5x - y = 10$
$4x + 4y = 8$
$-8x + 12y = 0$
$5x - 3y = 9$
$1x + 2y = 0$

two points

(x_2, y_2)	$(8, 5)$
(x_1, y_1)	$(-4, -1)$
$(8, -4)$	$(-5, 7)$
$(-1, 1)$	$(3, -1)$
$(8, -6)$	$(-4, -6)$
$(2, 3)$	

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Writing

LINEAR EQUATIONS

"BULLS EYES" ACTIVITY



Writing Linear Equations

"BULLS EYES"

Objective: Students will practice writing linear equations in slope-intercept form given the slope and y-intercept, the equation in standard form, a point and the slope, and two points on the line.

Activity Directions:

- **First Target:** Students are given the slope and y-intercept. They write this equation in slope-intercept form.
- **Second Target:** Students are given the equation in standard form. They write the equation in slope-intercept form, then identify the slope and y-intercept.
- **Third Target:** Students are given a point and the slope. They use the point-slope formula to write the linear equation, then write their final answer in slope-intercept form.
- **Fourth Target:** Students are given two points. They must first find the slope, then use the point-slope formula with either point to write the equation in slope-intercept form on the outer ring.

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Directions: Write each equation in slope-intercept form given the equation in standard form, then identify the slope and y-intercept.

Target 1 (SLOPE & y-intercept):

- Inner Ring: SLOPE & y-intercept
- Outer Ring: $b = -4$, $m = 3$; $m = 1$, $b = -8$; $b = 2$, $m = 4$; $m = 1/3$, $b = 1/3$; $b = 0$, $m = 2$

Target 2 (STANDARD FORM):

- Inner Ring: STANDARD FORM
- Outer Ring: $3x - 2y = 9$; $5x - y = 10$; $x + 2y = 4$; $-8x + 5y = 8$; $-8x + 12y = 0$

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Directions: Write each equation in slope-intercept form given the slope of the line.

Directions: Find the slope of the line given the two points, then write the equation of the line in slope-intercept form.

Target 3 (POINT & SLOPE):

- Inner Ring: POINT & SLOPE
- Outer Ring: $m = 2$; $m = 5/2$; $m = 1/2$; $m = -4$; $m = 3$

Target 4 (TWO POINTS):

- Inner Ring: TWO POINTS
- Outer Ring: $(0, -7)$, $(4, -8)$; $(-1, 1)$, $(3, 1)$; $(-1, 1)$, $(1, 1)$; $(-4, -6)$, $(-1, -1)$; $(2, 3)$, $(8, -2)$

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