keep scrolling to get a sneak peek!

Help your Algebra 1 students practice **writing linear equations in standard form from a point & slope**. Your students will benefit from being given choice when it comes to how they want to practice math!

STANDARD FORM FROM A POINT & SLOPE
Choice Board

Date: _____ Period: _____

rd Form from a Point & Slope
n standard form given a point and slope. Choose ____
ach column. Show your work in the boxes.

(5, -1) & m = 2	(-2, 6) & m = 1
(2, 1) & m = 6	(1, -2) & m = 2
(4, -3) & m = 1/4	(-15, -4) & m =

Name: _____ **ANSWER KEY** Date: _____

Writing in Standard Form from
Directions: Write the equation in standard form given a po
problems from each column. Show your wor

(4, 0) & m = 1
$0 = 1(4) + b$
$0 = 4 + b$
$-4 \quad -4 \qquad y = x - 4$
$-4 = b \qquad -x \quad -x$
$\boxed{-x + y = -4}$

(5, -1) & m = 2
$-1 = 2(5) + b$
$-1 = 10 + b$
$-10 \quad -10 \qquad y = 2x - 11$
$-11 = b \qquad -2x \quad -2x$
$\boxed{-2x + y = -11}$

(-7, 8) & m = -3
$8 = -3(-7) + b$
$8 = 21 + b$
$-21 \quad -21 \qquad y = -3x - 13$
$-13 = b \qquad +3x \quad +3x$
$\boxed{3x + y = -13}$

(2, 1) & m = 6
$1 = 6(2) + b$
$1 = 12 + b$
$-12 \quad -12 \qquad y = 6x - 11$
$-11 = b \qquad -6x \quad -6x$
$\boxed{-6x}$

(4, 3) & m = 7
$3 = 7(4) + b$
$3 = 28 + b$
$-28 \quad -28 \qquad y = 7x - 25$
$\qquad -7x \quad -7x$

(4, -3) &
$-3 = \frac{1}{4}(4) + b$
$-3 = 1 + b$

Math with Ms. Rivera

why do you need this?

✏️ Allowing student choice in how they practice will encourage them to do the practice!

✏️ You can differentiate by the number of problems required of particular students.

Writing Linear Standard Form Point & Slope Choice Board

Writing Linear Standard Form from Point & Slope Choice Board *includes*:

Name: _____

Writing in Standard Form from a Point & Slope

Date: _____   **Period:** _____

Directions: Write the equation in standard form given a point and slope. Choose _____ problems from each column. Show your work in the boxes.

(4, 0) & m = 1	(5, -1) & m = 2	(-2, 5) & m = 1
(-7, 8) & m = -3	(2, 1) & m = 6	(1, -2) & m = 2
(4, 3) & m = 7	(4, -3) & m = 1/4	(-15, -4) & m = 1/2

✅ printable worksheet

✅ a detailed answer key

✅ 3 columns with 5 questions in each – 15 question total

✅ Spot to assign how many problems students need to complete

Writing Linear Standard Form from Point & Slope Choice Board

standards covered:

CCSS: HSA-CED.A.2

TEKs: A1.2.B, A1.2.C

VA SOLs: EI.A.6.b

Name: _____

ANSWER KEY

Date: _____

Period: _____

Writing in Standard Form from a Point & Slope

Directions: Write the equation in standard form given a point and slope. Choose ___ problems from each column. Show your work in the boxes.

(4, 0) & m = 1

$0 = 1(4) + b$
$0 = 4 + b$
$-4 \quad -4$
$-4 = b$

$y = x - 4$
$-x \quad -x$

$\boxed{-x + y = -4}$

(5, -1) & m = 2

$-1 = 2(5) + b$
$-1 = 10 + b$
$-10 \quad -10$
$-11 = b$

$y = 2x - 11$
$-2x \quad -2x$

$\boxed{-2x + y = -11}$

(-2, 6) & m = 1

$6 = 1(-2) + b$
$6 = -2 + b$
$+2 \quad +2$
$8 = b$

$y = x + 8$
$-x \quad -x$

$\boxed{-x + y = 8}$

(-7, 8) & m = -3

$8 = -3(-7) + b$
$8 = 21 + b$
$-21 \quad -21$
$-13 = b$

$y = -3x - 13$
$+3x \quad +3x$

$\boxed{3x + y = -13}$

(2, 1) & m = 6

$1 = 6(2) + b$
$1 = 12 + b$
$-12 \quad -12$
$-11 = b$

$y = 6x - 11$
$-6x \quad -6x$

$\boxed{-6x + y = -11}$

(1, -2) & m = 2

$-2 = 2(1) + b$
$-2 = 2 + b$
$-2 \quad -2$
$-4 = b$

$y = 2x - 4$
$-2x \quad -2x$

$\boxed{-2x + y = -4}$

(4, 3) & m = 7

$3 = 7(4) + b$
$3 = 28 + b$
$-28 \quad -28$
$-25 = b$

$y = 7x - 25$
$-7x \quad -7x$

$\boxed{-7x + y = -25}$

(4, -3) & m = 1/4

$-3 = \frac{1}{4}(4) + b$
$-3 = 1 + b$
$-1 \quad -1$
$-4 = b$

$y = \frac{1}{4}x - 4$

(-15, -4) & m = 1/2

$-4 = \frac{1}{2}(-15) + b$
$-4 = -\frac{15}{2} + b$

how the choice board resource works

Differentiate the choice board worksheet by reducing the number of problems assigned to show mastery.

Assign students the number of problems they need to complete from each column.

Students can complete the any problems they want to in each column and in any order.

Name: _____ Date: _____ Period: _____

Writing in Standard Form from a Point & Slope

Directions: Write the equation in standard form given a point and slope. Choose _____ problems from each column. Show your work in the boxes.

$(4, 0)$ & $m = 1$	$(5, -1)$ & $m = 2$	$(-2, 6)$ & $m = 1$
$(-7, 8)$ & $m = -3$	$(2, 1)$ & $m = 6$	$(1, -2)$ & $m = 2$
$(4, 3)$ & $m = 7$	$(4, -3)$ & $m = 1/4$	$(-15, -4)$ & $m = 1/2$
$(-2, 3)$ & $m = -3/2$	$(9, -10)$ & $m = -4$	$(5, 2)$ & $m = 4/9$

ANSWER KEY

Name: _____ Date: _____ Period: _____

Writing in Standard Form from a Point & Slope

Directions: Write the equation in standard form given a point and slope. Choose ____ problems from each column. Show your work in the boxes.

(4, 0) & m = 1	(5, -1) & m = 2	(-2, 6) & m = 1
$0 = 1(4) + b$ $0 = 4 + b$ $-4\ -4$ $-4 = b$ $y = x - 4$ $-x\ \ -x$ $\boxed{-x + y = -4}$	$-1 = 2(5) + b$ $-1 = 10 + b$ $-10\ -10$ $-11 = b$ $y = 2x - 11$ $-2x\ -2x$ $\boxed{-2x + y = -11}$	$6 = 1(-2) + b$ $6 = -2 + b$ $+2\ +2$ $8 = b$ $y = x + 8$ $-x\ \ -x$ $\boxed{-x + y = 8}$

(-7, 8) & m = -3
$8 = -3(-7) + b$
$8 = 21 + b$ $y = -3x - 13$
$-21\ -21$ $+3x\ +3x$
$-13 = b$ $\boxed{3x + y = -13}$

(4, 3) & m = 7
$3 = 7(4) + b$ $y = 7x - 25$
$3 = 28 + b$ $-7x\ -7x$
$-28\ -28$
$-25 = b$ $\boxed{-7x + y = -25}$

(-2, 3) & m = -3/2
$3 = -\frac{3}{2}(-2) + b$
$3 = 3 + b$ $y = -\frac{3}{2}x$
$-3\ -3$ $+\frac{3}{2}x\ +\frac{3}{2}x$
$0 = b$
$2(\frac{3}{2}x + y = 0)$
$\boxed{3x + 2y = 0}$

(7, -5) & m = -2/7
$-5 = -\frac{2}{7}(7) + b$
$-5 = -2 + b$ $y = -\frac{2}{7}x - 3$
$+2\ +2$ $+\frac{2}{7}x\ +\frac{2}{7}x$
$-3 = b$

Name: _____ Date: _____ Period: _____

Writing in Standard Form from a Point & Slope

Directions: Write the equation in standard form given a point and slope. Choose ____ problems from each column. Show your work in the boxes.

(4, 0) & m = 1	(5, -1) & m = 2	(-2, 6) & m = 1
(-7, 8) & m = -3	(2, 1) & m = 6	(1, -2) & m = 2
(4, 3) & m = 7	(4, -3) & m = 1/4	(-15, -4) & m = 1/2

This is a great individual practice activity to use when reviewing how to write linear equations in standard form given a point and slope.

My favorite ways to use this choice board is for homework and math practice stations.

This is also a **substitute-friendly** assignment!

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