

## Agenda:

- Warm ups


## linear equations

## WARM UP - FILL IN THE BLANKS <br> PLACE ONE DIGIT IN EACH BOX TO MAKE THE STATEMENT TRUE

$$
\begin{gathered}
\sqrt{\square}+\sqrt{\square}=\sqrt{\square}+\sqrt{\square} \\
1_{1} \\
2_{0} \\
5
\end{gathered} 0_{1}
$$

## POP - UP \#1

1) $f(x)$ is a linear function represented by the given table of values; which of the following choices represents
 $f(x)$ ?
A) $f(x)=-5 x+1$
B) $f(x)=3 x-2$
C) $f(x)=x^{2}$
D) $f(x)=5$

| $x$ | $f(x)$ |
| :---: | :---: |
| 0 | -2 |
| 1 | 1 |
| 2 | 4 |
| 3 | 7 |
| 10 | 28 |

## POP - UP \#2

2) Fill in the blank,
$1,1,2,3,5,8,13,21,34$, $\qquad$ 89, 144.
A) 50
B) 100
C) 55
D) there is no pattern

## POP - UP \#3

For the linear function $y=-3 x+5$; if $x=0$, then $y=$ ?
A) -3
B) 5
C) -5
D) can't be found

## POP - UP \#4

4) Fill in the blank,

$$
80,72,64, \ldots, 48,40, \ldots
$$

A) 54
B) 56
C) 58
D) No pattern

## POP - UP \#5

## 5) For the linear function $y=-10$

for each one unit increase in $x$ the $y$-value is decreased by 10 .
A) True

B) False

## Write the Linear Equation for Each Graph

$$
\begin{gathered}
y=m x+b \\
\downarrow \quad \text { Slope Intercept Form } \\
\text { Slope } \quad \begin{array}{c}
\text {-intercept }
\end{array}
\end{gathered}
$$



## Graph Each Linear Equation

$$
y=1 / 2 x-1
$$

$$
y=-3 x+2
$$

$$
y=x-4
$$





How can you graph this equation?

$$
2 x+6 y=6 \curvearrowright \text { Standard Form }
$$



Convert Each Standard Form Equation to Slope-Intercept Form:

| $8 x+4 y=16$ | $x-2 y=6$ | $2 x-5 y=-20$ |
| :--- | :--- | :--- |

Convert Each Standard Form Equation to Slope-Intercept Form:

| $6 x+3 y=27$ | $-6 x+\frac{3}{4} y=9$ | $-\frac{3}{4} x-\frac{1}{2} y=3$ |
| :--- | :--- | :--- |
|  |  |  |


| Name | Score |
| :---: | :---: |
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## Individual Practice: Let's Shoot Some Hoops!

## Directions:

- Click on link in chat box. (http://www.math-play.com/slope-intercept-game.html)
- Choose 1 player
- Complete the player options.
- Answer the 10 questions about converting standard form to slope-intercept.
- Write your name and score in the table when finished.


Type your name, choose a skill level, and team color. Then click "Play".


Kit colour:

Shoe colour:


REFLECTION Poasew wition tho board

Write Two things you learned TODAY

