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|  |  | Got | albra a est Tuesday 10/20!! | $2.2$ <br> Stamp |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 10 \\ & 6 \\ & 6 \\ & 8 \end{aligned}$ | 10/ 12/ 2015 | Objective: | No School |  |
|  |  | Assignment: | Staff Development |  |
| $\begin{aligned} & 8 \\ & 10 \\ & 6 \\ & 6 \\ & 5 \end{aligned}$ | 10/ 13/ 2015 | Objective: | Point-Slope Form |  |
|  |  | Assignment: | Practice \#1-11 |  |
|  | 10/ 14/ 2015 | Objective: | Point-Slope <br> I nequalities |  |
|  |  | Assignment: | Practice \#1-8 |  |
|  | 10/ 15/ 2015 | Objective: | Standard Form |  |
|  |  | Assignment: | Practice \#1-6 |  |
|  | 10/ 16/ 2015 | Objective: | Standard Form Inequalities |  |
|  |  | Assignment: | Practice \#1-6 <br> HW 2.2 Due! |  |

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| Monday: $1^{\text {st }}$ Attempt (D0 NOT ERASE) ${ }^{\text {correct So }}$ | Correct Solution: |
| :---: | :---: |
| Tuesday: ${ }^{\text {st }}$ Attempt (D0 NOT ERASE) ${ }^{\text {a }}$ Correct So | Correct Solution: |
| Wednesday: $1^{\text {st }}$ Attempt (D0 NOT ERASE) ${ }^{\text {correct So }}$ | Correct Solution: |
| Thursday: $1^{\text {st }}$ Attempt (D0 NOT ERASE) ( 0 (rrect So | Correct Solution: |
| Friday: $1^{\text {st }}$ Attempt (D0 NOT ERASE) $\quad$ Gorrect So | Gorrect Solution: |
| Warm Up Expectations: <br> - Try warm up problem(s) on your own on the "First Attempt" side. <br> - Politely request teacher signature when complete before timer goes off. <br> - Gopy the correct work/solution in the right-hand box. <br> - Ask questions © <br> When absent... <br> Write the word "ABSENT" on the first attempt column for 2 points. Copy the correct solution from a shoulder partner on the correct solution column for 1 point. |  |

$\qquad$ Period $\qquad$

1. Write an equation in slope-intercept form of a line with a slope of -3 that passes through the point $(-2,4)$
2. Write an equation in slope-intercept form of a line with a slope of 2 that passes through the point $(3,8)$
3. Write an equation in point-slope form with a slope of 3 that passes through the point $(4,5)$
4. Write an equation in point-slope form of a line with a slope of $\frac{3}{4}$ that passes through the point $(8,-12)$
5. Write an equation in point-slope form of a line with a slope of -4 that has a $y$-intercept of - 3
6. Which equation describes the line that goes through the point $(-5,1)$ and has a slope of 1 ?
A. $y+1=x-5$
B. $y+5=x-1$
C. $y-1=-5(x-1)$
D. $y-1=x+5$
7. A. What is the rate of change of the function $y-4=-4(x-5)$ ?
B. What is a point on the line given by the function $y-4=-4(x-5)$ ?
8. After 6 weeks of school, 53,000 sheets of computer paper are left. 4,500 sheets are used each (per) week.

Slope: $\mathrm{m}=$ $\qquad$ Point: ( $\qquad$ )

A Write an equation that represents this situation where $s$ is the total number of sheets left and $w$ is the number of weeks.

B How many sheets of paper did this school start with?
10. Two students used point-slope form to find an equation that describes the line with a slope of -3 and goes through the point $(-5,2)$. Who is incorrect? Explain the error.
A

$$
\begin{aligned}
y-y_{1} & =m\left(x-x_{1}\right) \\
y-2 & =-3(x-5)
\end{aligned}
$$

B.

$$
\begin{aligned}
y-y_{1} & =m\left(x-x_{1}\right) \\
y-2 & =-3[x-(-5)] \\
y-2 & =-3(x+5)
\end{aligned}
$$

11. A Write an equation of a line in slope-intercept form of the graphed line below.
B. Write an equation of a line in point-slope form of the graphed line below.
C. Compare the two equations. How is slope-intercept and point slope form alike? Different?


Algebra 1 Unit 3 Point-Slope Form Inequalities

## Practice - Point-Slope Form Inequalities

Name
Date $\qquad$ Period $\qquad$
Graph each inequality.

1. $\mathrm{y}+3 \leq \frac{1}{4}(\mathrm{x}+4)$

2. $y+2<-(x-4)$


3. $y-0 \geq-\frac{1}{3}(x-3)$
4. $y+1 \geq-\frac{4}{9}(x+5)$

5. $y-2>2(x-2)$

6. $y-1 \leq \frac{5}{2}(x-2)$

7. $y-0<-5(x+3)$

8. $y+4 \geq 3(x+2)$


## Algebra 1 - Unit 3 - Standard Form of a Linear Equation

 Practice - Standard Form of a Linear EquationName
Date $\qquad$ Period $\qquad$
Using the function in standard form, answer the questions, and graph the function on the plane provided.

1. $2 y+8 x=16$
$\mathrm{m}=$ $\qquad$
y -intercept $=$ $\qquad$
x-intercept $=$ $\qquad$

2. $6 x-3 y=-18$
$\mathrm{m}=$ $\qquad$
y -intercept $=$ $\qquad$
x-intercept $=$ $\qquad$
3. $3 x-4 y=0$

$\mathrm{m}=$ $\qquad$
y -intercept $=$ $\qquad$
$x$-intercept $=$ $\qquad$

4. What is the equation in standard form of the line that passes through the point $(1,5)$ and has a slope of -2?
A. $2 x+y=7$
B. $2 x+y=11$
C. $2 x+y=-7$
D. $x+5 y=-2$
5. What is the equation in standard form of the line that passes through the point $(-2,7)$ and has a rate of change of $\frac{1}{6}$ ?
A. $-2 x-7 y=\frac{1}{6}$
B. $x-6 y=40$
C. $x-6 y=44$
D. $x-6 y=-44$

## Algebra 1 - Unit 3 - Standard Form of a Linear Equation

6. The graph shows the distance of an elevator at Chimney Rock, North Carolina, from its destination as a function of time. Use the graph to answer questions a-e. Select the best answer.


a. Which equation does not represent the graph above?

A $y=\frac{17}{2} x-255$
B $\quad 17 x+2 y=510$
C $\quad(y-255)=\frac{17}{2}(x-0)$
D $\quad 30 x+255 y=0$
b. What is the $x$-intercept of this function?

A 0
B 30
C 255
D 300
c. What does the $x$-intercept represent?

A The total distance the elevator must travel
B The number of seconds that passed for any given distance
C The number of seconds it takes the elevator to reach its destination
D The distance that the elevator has traveled at any given time
d. What is the $y$-intercept for this function?

A 0
B 30
C 255
D 300
e. What does the $y$-intercept represent?

A The total distance the elevator must travel
B The number of seconds that have passed for any given distance
C The number of seconds it takes the elevator to reach its destination
D The distance that the elevator has traveled at any given time

## Algebra 1 Unit 3 - Standard Form of Linear I nequalities

## Practice - Standard Form of Linear I nequalities

Name $\qquad$ Date
Pd $\qquad$

## Use the situation below to answer questions 1-4.

An interior decorator is going to remodel a bathroom. The area above the sink, which is $24 \mathrm{ft}^{2}$, is going to be wall papered. The shower area, which is $12 \mathrm{ft}^{2}$, is going to be tiled. The owners have a maximum budget of $\$ 420$.

1. If $x$, is the cost per square foot of wall paper and $y$, is the cost per square foot of tile, write an inequality that represents this situation. $\qquad$
2. Graph the inequality in your calculator. What are three possible prices per square foot for the wallpaper and tiles?
3. What does the point $(8.25,18.5)$ mean in this project?
4. Explain why this would be important information to know when completing this project.
5. Which equation is represented by the graph below?

A $y+x \geq-3$
B $y-x \geq 3$
C $\quad x-y>-3$
D $y>-x+3$

6. Which of the following is a solution to the equation $5 x-y<8$ ?
I. $(-2,-9)$
II. $\quad(2,2)$
III. $(-3,5)$
IV. $(3,-9)$

A II only
B I, II and III
C IV only
D II and III

