Checkpoint

October-08-15 2:57 PM

Linear Equations- Checkpoint

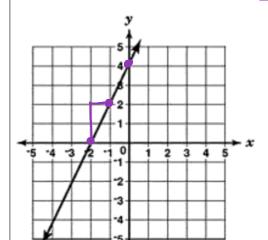
Name __

Day ____ Period ____

Beginning	Developing	Accomplished	Exemplary
Does not demonstrate a basic	Basic understanding of concepts.	Solid understanding of	Complete and in depth
understanding of concept.	Errors and inconsistency reveal	concepts. Most answers are	understanding of concept.
Substantial errors throughout.	some missing understanding of	correct with only a few	Answers are correct.
	concept. Difficulty with harder	minor errors.	
	questions.		

Concept #1: Create a linear equation from a graph.

Write an equation given the graph of a line in slope-intercept form (y=mx+b)



$$y=mx+b$$
1) $m=\frac{2}{1}=2$
2) $b=4$

$$2) b = 4$$

Beginning	Developing	Accomplished	Exemplary

Map for improvement:

Concept #2: Create a linear equation given two points.

Write an equation for the line that passes through the points (-4, 7) and (5,-2) Write the equation in slope-intercept form (y=mx+b) \times_1 \times_1 \times_2 \times_2



Beginning

3=b

Developing

Accomplished

Exemplary

Map for improvement:

eg. Finding b

Concept #3: Converting between different forms of an equation (& finding intercepts)

Rewrite the equation in general form.

$$\left(y = \frac{1}{3}x - 4\right) \times 3$$

$$8y=|x-12|$$

$$0 = |\chi - 3\gamma - 12|$$

B) Rewrite the equation in slope-intercept form.

$$4x + 3y - 24 = 0$$

$$\frac{4x}{-3} - \frac{24}{-3} = \frac{73}{-3}$$

$$-\frac{4}{3}\chi + 8 = \gamma \rightarrow \boxed{\gamma = -\frac{4}{3}\chi + 8}$$

C) What is the x-intercept and the y-intercept for part B(4x+3y-24=0)?

$$=8$$
 (plug in $x=0$)

D) Write the equation of a line in slope-point form that passes through the points (-3, 4) and (5, -2).

$$\lambda - \lambda^1 = w(x - x^1)$$

$$y-y_1=m(x-x_1)$$
 Need 1) $m=\frac{-2-4}{5-(-3)}=\frac{-6}{8}=\frac{-3}{4}$

$$y-4=-\frac{3}{4}(x-(-3))$$

	<u> </u>	4
[y-4=	$-\frac{3}{4}(x+3)$

Developing **Beginning**

Accomplished

Exemplary

Map for improvement