Name: Lilly M.

Exit Ticket/Error Analysis

1. A student was given the following problem:

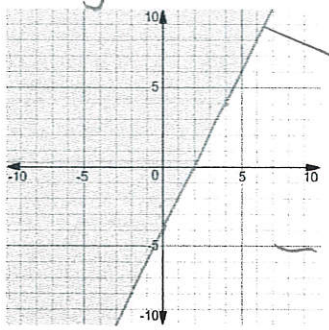
Graph the solution of the linear inequality. $2x - y - 4 > 0$

$2x-y-4>0$
$+y$
$2x-4>y$
$y<2x-4$

Here is the student's work and answer to the problem.

Step 1: $2x - y - 4 > 0$
$-y - 4 > -2x$
$-y > -2x + 4$
$y > 2x - 4$ flip the sign when divid by negative

Step 2 & Step 3:



need dashed line.

Shading needs to be below.

Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

1. They needed to flip the sign
2. They need a dashed line, not a full. (solid)
3. Their shading is above and it is supposed to be below

Exactly! Great job finding all of the students errors. Can you explain to me why the ~~sign~~ the line needs to be dashed or why it should be shaded below.

Name: Lorem B

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

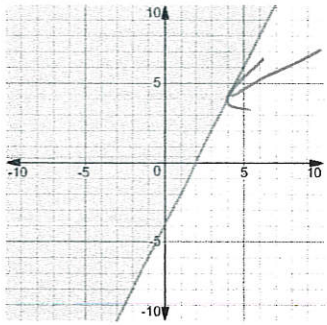
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Needs to be dashed line.

Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the linear inequality is incorrect because the line is not dashed.

Great job identifying that the line needs to be dashed. Why does the line need to be dashed? Also, did the student make any other errors? Try checking their work.

Name: Haeun [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

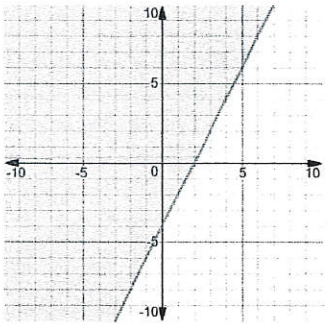
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The student forgot to flip their sign when dividing by a negative number. This linear inequality is no correct.

I agree with you that the graph of the linear inequality is not correct. The sign should have been flipped! What would flipping the sign do to the graph?

Did the student make any other errors?

Name: McKenna [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

$2x-y-4>0$

$-2x \quad -2x$

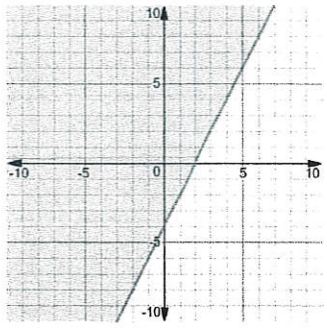
$-y-4>0-2x$

$+4 \quad +4$

$\frac{-y}{-1} > \frac{-2x+4}{-1}$

y

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the linear inequality is incorrect because the student did their math wrong. When the student didn't flip the sign when they divided by a negative number.

Great job identifying that the student didn't flip the sign when they divided by a negative number. Did the student make an error anywhere else in the problem?

Name: Desirae [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

> Graph the solution of the linear inequality.
> $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

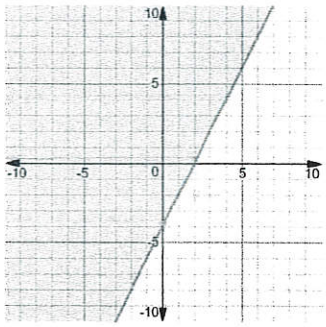
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



The graph of the linear inequality is incorrect because it needs to be shaded below.

I agree it does need to be shaded below, but why? Did the student make any other errors with the graph?

Is the student correct? Explain your reasoning.

Possible Sentence Starters:

The graph of the linear inequality is correct because....

The graph of the linear inequality is incorrect because....

Name: Madalen

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

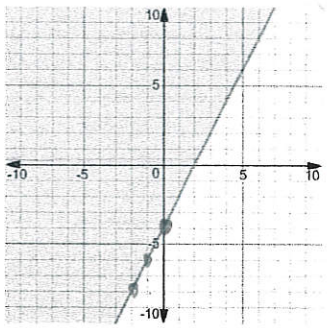
$2x - y - 4 > 0$

$+4 \quad +4$

$2x - y > 4$

$-2x$

Step 2 & Step 3:



flip sign

$\frac{-y}{-1} > \frac{2x+4}{-1} \quad -1$

$-y < -2x - 4$

$y < -2x + 4$

Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The person did not flip sign when they solved for y

The graph of the linear inequality is incorrect because the person forgot to flip sign when they divided by a negative number, and the shading should be below.

Absolutely Madalen! The sign should have been flipped which would have resulted in shading below the line. Are there any other errors the student made while graphing?

Name: Kenzie [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

Step 1: $2x - y - 4 > 0$

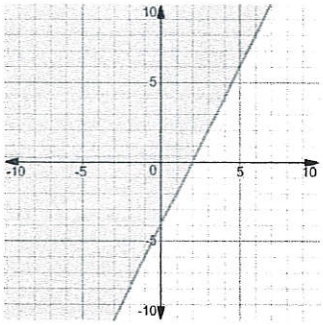
$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

$2x - y - 4 > 0$
$+4 \quad +4$
$2x - y > 4$
$-2x \quad -2x$
$-y > -2x + 4$
-1
$y < 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The Student is incorrect because they forgot to move a negative so the line should be negative and the shaded region should be below the line.

I see where you were getting at and I do agree the ~~line~~ area should be shaded below the line. However, did the student find the wrong slope? Look at your work above again.

Name: Lillian [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

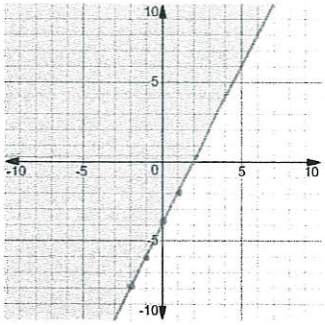
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the linear inequality is incorrect because > means that the line should be dashed.

Great job identifying the error with the line being solid instead of dashed. Look deeper into the problem a little bit, are we sure the student didn't make any other mistakes?

Name: Bryce

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

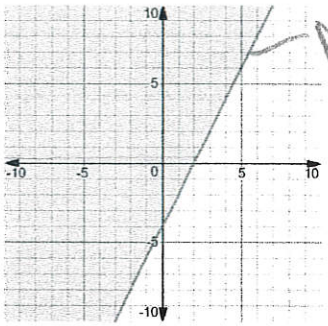
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



needs dash

Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the linear inequality is incorrect because it needs to be a dotted line.

Great job finding that error!
Why does the line need to be dashed? Also, did the student make any other errors? Try checking their work.

Name: Rachael

Exit Ticket/Error Analysis

1. A student was given the following problem:

> Graph the solution of the linear inequality.
> $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

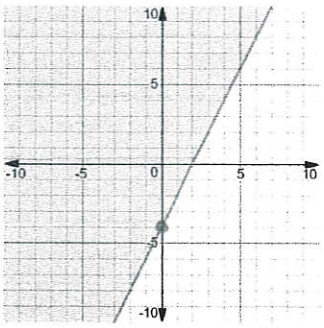
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

No, they had a solid line instead of a dashed line.

Exactly, they did need a dashed line instead of a solid line. Why did they need a dashed line? Did the student make any other errors? Try checking their work.

Name: Wyatt

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

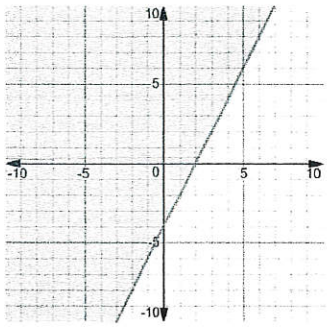
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

it is incorrect because he mixed up the steps

What steps did the student mess up?

Name: Gracyn

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

Step 1: $2x - y - 4 > 0$

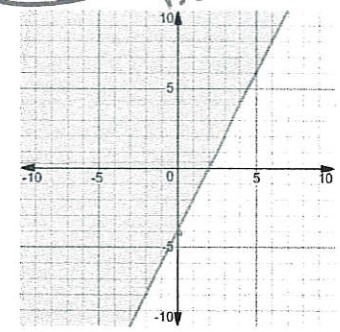
$-y - 4 > -2x$

$-y \geq -2x + 4$

$y > 2x - 4$

Supposed to be negative

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

Hmm... I see your thinking, but try looking at the work again. Are you sure it's suppose to be $y > -2x - 4$?

They're incorrect because when they got to $y \geq 2x - 4$ it's supposed to be $y \geq -2x - 4$ so there slope's wrong cause it's supposed to go down 2, right one or up two left one.

Name: Matthew [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

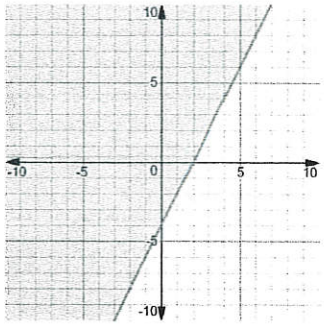
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the linear inequality is correct because they followed the correct steps and got the correct graph.

I agree the student used the steps we talked about. However, Try working out the problem yourself and compare your work to the students. Are you sure the student is corrected?

Name: Donica

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

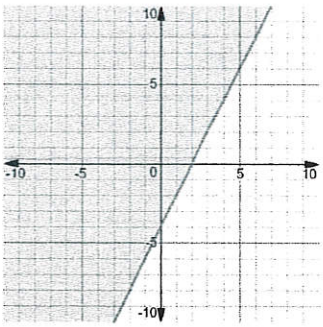
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

He accidentally went down 5 times instead of 4.

Try taking another look at the graph. Did the student go down 5 instead of 4?

Also, did the student make more than one error?

Name: Brian Z

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

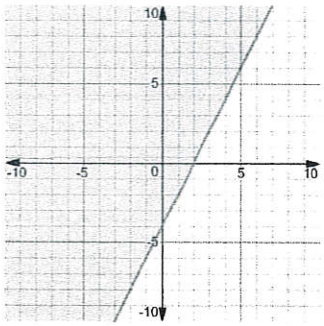
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

The graph of the inequality is correct because they don't have a flaw in there work.

Are you sure there isn't a flaw? Try working the problem out yourself and see if you would get the same answer.

Name: Emma [redacted]

Exit Ticket/Error Analysis

1. A student was given the following problem:

Graph the solution of the linear inequality. $2x - y - 4 > 0$

Here is the student's work and answer to the problem.

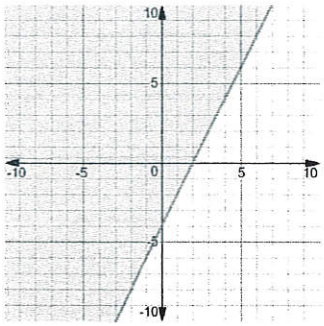
Step 1: $2x - y - 4 > 0$

$-y - 4 > -2x$

$-y > -2x + 4$

$y > 2x - 4$

Step 2 & Step 3:



Is the student correct? Explain your reasoning.

Possible Sentence Starters:
The graph of the linear inequality is correct because....
The graph of the linear inequality is incorrect because....

NO the student is not correct because they turned the (2x) into (-2x) so that changes the whole problem

Is that really incorrect? What did the student do with the 2x?