Agenda

- Homework:
  - Linear Equations with 2 points WS
  - AM

- Materials:
  - Notebook
  - Calculator

- DO NOW:

① Take out homework

② On your desk:

Find the slope between (0, -5) & (4, 3)

Do Now

- Find the slope between (0, -5) & (4, 3)

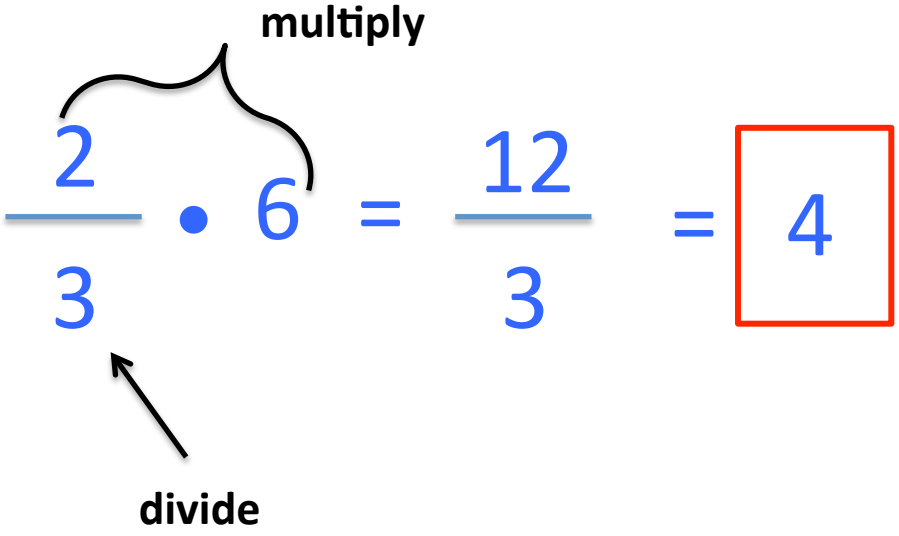
Set up Cornell Notes

- **Topic:** Linear Functions – 2 points
- **EQ:** How can we generate a linear function given TWO POINTS on the line?

Update Table of Contents

How do you multiply fractions with whole numbers?

1. MULTIPLY the WHOLE number and the NUMERATOR
2. DIVIDE the answer by the DENOMINATOR



How can you use 2 points on a line to find its equation?

Point$_1$ (-2 , 4)

Point$_2$ (3 , 19)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = 3$$

$y = mx + b$

$4 = 3(-2) + b$

$4 = -6 + b$

$+6 \quad +6$

$10 = b$

$y = mx + b$

Practice: Solve the equation of a line that goes through the points (-3, 7) & (3, 3)

Presentation Script

- Our line has the coordinates _____ & _____.
- To find the equation in y=mx+b form, we first _____
- Then we _____
- And got _____
- Finally, _____
- So our final equation is _____

MINI QUIZ

- On a sheet of folder paper:

Find the linear equations in y=mx+b form between the following points:

①(2, 5) & (3, 8)

②(-6, 7) & (-10, 9)