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$$\text{SLOPE} = \frac{\Delta Y}{\Delta X} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{2 - 0}{8 - 5} = \frac{2}{3}$$

$(5, 0)$ $(8, 2)$
↑ ↑ ↑ ↑
 X_1 Y_1 X_2 Y_2

(X, Y)

↑
SLOPE

$\Delta = \text{CHANGE}$

COMPLEX FRACTIONS

$$\frac{N \rightarrow 3}{D \left\{ \frac{2}{5} \right\}} = \frac{3}{1} \div \frac{2}{5} = \frac{3}{1} \cdot \frac{5}{2} = \frac{3 \cdot 5}{1 \cdot 2} = \frac{15}{2} = 7 \frac{1}{2}$$

4^o 1st 2nd
 (5, 0) (8, 2) (x, y)
 ↑ ↑ ↑ ↙
 x₁ y₁ x₂ y₂

$$\text{SLOPE} = \frac{\Delta Y}{\Delta X} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 0}{8 - 5} = \frac{2}{3} = \frac{\text{RISE} \updownarrow}{\text{RUN} \leftrightarrow}$$

↑
DELTA = CHANGE

↑
SLOPE

FRACTIONS
SHOW
DIVISION

UNIT RATE

HOT DOGS
 6 DOGS \$ 3.00 ← 7 DOGS \$ 3.50
 8 DOGS \$ 4.00

→ HOW MUCH FOR ONE HOT DOG? \$0.50

$\frac{3}{6} = \frac{0.50}{1}$ $3 \div 6 = 0.50$
 $\frac{4}{8} = \frac{0.50}{1}$

5°

COORDINATE PAIR →

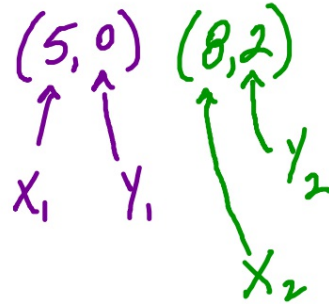
(X, Y)

$$\text{SLOPE} = \frac{\Delta Y}{\Delta X} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{2 - 0}{8 - 5} = \frac{2}{3}$$

↑
How STEEP
IS THE LINE?

↑
DELTA = CHANGE

↑
SLOPE



6°

CHAPTER 1 TEST NOTES

THE CHANGE IN Y

$$\text{SLOPE} = \frac{\Delta Y}{\Delta X} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{2 - 0}{8 - 5} = \frac{2}{3} = \frac{\text{RISE}}{\text{RUN}}$$

DELTA = CHANGE

SLOPE

