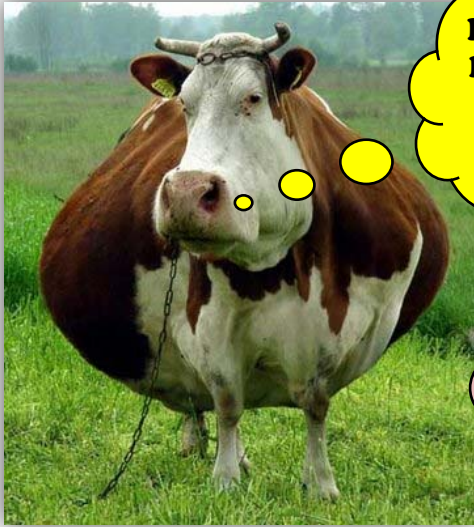


5.1 (Page 192) Ratios



I shouldn't have eaten that 2nd taco...



Who you calling a monkey?

A **Ratio** is a comparison of two quantities...

Ex. Mr. Z's class:

Boys = 12

Girls = 10



I sweat a lot!!



Bro...this is so easy!!

There are 3 ways to write a ratio:

1st way:



Use the word **'to'**.

Boys to Girls

12 to 10

2nd way:



Use a **colon (:)** in place of the word **to**.

Boys : Girls

12 : 10

Said "12 to 10"

3rd way:



Write as a fraction.

Boys
Girls

12
10

Wait...One more thang!



Ratios can be written in simplest form too...

3 to 12 **→** **1 to 4**

4 : 10 **→** **2 : 5**

$\frac{8}{18}$ **→** **$\frac{4}{9}$**

Tape Diagrams: shows relationship between two quantities and looks like a segment of tape.

Ex. You have 72 baseball cards, for every 5 Astros you have 3 Dodgers.



These 8 parts represent 72 baseball cards.

Because there are 8 parts,

you know that 1 part represents $72 \div 8 = 9$.

- 5 parts represent $9 \cdot 5 = 45$ cards.
- 3 parts represent $9 \cdot 3 = 27$ cards.

