2 out of 3 people prefer popcorn instead of nachos at the movies

$\frac{2}{3}$ → # who prefer popcorn

→ total #

Ratios

part : whole OR part : part

2 : 3 → total #

Prefer Popcorn

2 : 1 → prefer nachos

Prefer Popcorn

For fractions the bottom number ALWAYS represents the whole

Fractions = $\frac{\text{part}}{\text{total}}$

bottom # is always the total

Ratio = part : total → second # is total

OR

part : part → no total given. Have to add the two #'s together to get the total

Ratio → Fraction → Decimal → Percent

ex. 1 teacher for every 15 students

part : part

1 : 15 → $\frac{1}{16}$ → $1 \div 16 = 0.0625 \rightarrow 6.25\%$

(1 : teachers, 15 : students)

part : total

1 : 16 → $\frac{1}{16}$ → $1 \div 16 = 0.0625 \rightarrow 6.25\%$

(1 : teachers, 16 : people)

RATIOS CAN BE PART:PART OR PART:WHOLE

Example pg 266

At a class party, there are 16 boys, 15 girls, and 4 adults.
Show each ratio as many different ways as you can.

a) boys to girls 16 : 15 part : part

b) boys to girls to adults 16 : 15 : 4 part : part : part

c) adults to total number of people at the party

4 : 35 part : whole