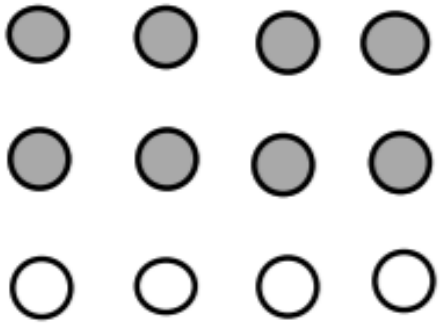
Fraction Equivalence with Chips

Ari showed the fraction $\frac{2}{3}$ using 12 chips. Erin said that his display really showed $\frac{8}{12}$ while Hamdi said it was $\frac{4}{6}$. Who is correct?

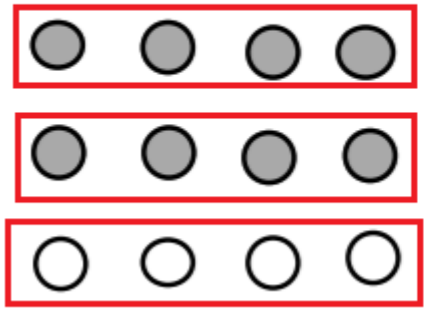
Ari's display:



Source: RNP 1, Lesson 14

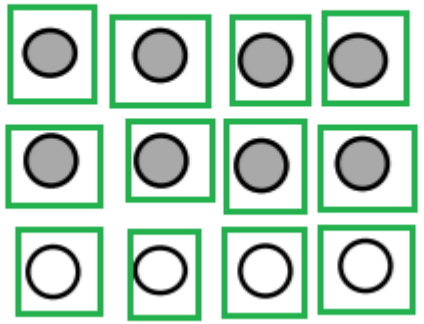
Fractional Equivalence

Group size is 4



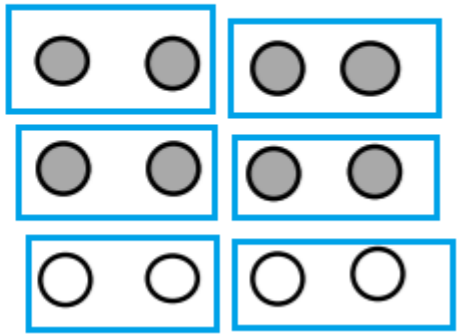
$\frac{2}{3}$

Group size is 1



$\frac{8}{12}$

Group size is 2

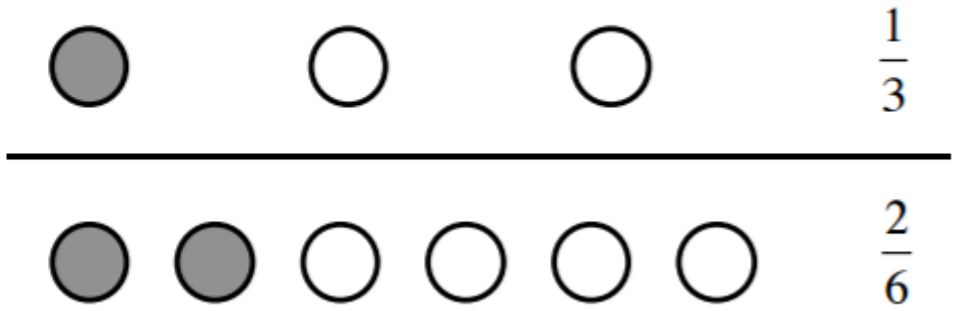


$\frac{4}{6}$

$$\frac{2}{3} = \frac{8}{12} = \frac{4}{6}$$

Equivalent Fractions & Group Size

Comparing fractions with chips depends on using the same number of chips in each unit. You cannot compare $\frac{1}{3}$ and $\frac{2}{6}$ if the units are different. For example:



Here it <u>seems</u> that $\frac{2}{6} > \frac{1}{3}$.

Source: RNP 1, Lesson 15