Dividing Fractions

proper and improper fractions

"copy Dot flip"

copy change change

multiply

change back to mixed number

SIMPLIFY

$\frac{2}{3} \div \frac{1}{4}$

copy Dot flip

$\frac{2}{3} \cdot \frac{4}{1}$

(X)

$\frac{2}{3} \cdot \frac{4}{1} = \frac{8}{3}$

$3\overline{)8}$ quotient 2, -6, remainder 2 $= 2\frac{2}{3}$

mixed numbers

* change mixed numbers to improper fractions

MN → IF → MN

"Copy Dot Flip"

multiply

change back to mixed number

SIMPLIFY

$2\frac{1}{4} \div 1\frac{2}{3}$

$\frac{9}{4} \div \frac{5}{3}$

$\frac{9}{4} \cdot \frac{3}{5}$

$\frac{9}{4} \cdot \frac{3}{5} = \frac{27}{20}$

$20\overline{)27}$ quotient 1, -20, remainder 7 → $1\frac{7}{20}$

$1\frac{7}{20}$

whole numbers

$7 \div \frac{1}{2}$

$\frac{7}{1} \div \frac{1}{2}$

$\frac{7}{1} \cdot \frac{2}{1}$

$\frac{7}{1} \cdot \frac{2}{1} = \frac{14}{1}$

$\boxed{14}$

put a 1 under the whole number

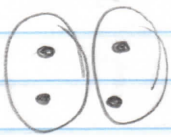
copy Dot Flip

multiply

SIMPLIFY

How it works

$4 \div 2$ $\quad 2\overline{)4}$ $\quad \frac{2}{}$



Division

"How many equal sets of 2 are in 4?"

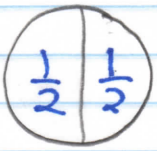
"There are 2 equal sets of 2 in 4."

$1 \div \frac{1}{2}$

"How many equal sets of ½ are in 1?"

$\frac{1}{1} \cdot \frac{2}{1} = \frac{2}{1}$

$\boxed{2}$

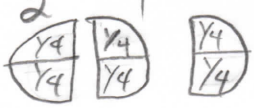


"There are 2 equal sets of ½ in 1"

$1\frac{1}{2} \div \frac{1}{4}$ $\quad \frac{3}{2} \div \frac{1}{4}$

"How many equal sets of ¼ are in 1½?"

$\frac{3}{2} \cdot \frac{4}{1} = \frac{12}{2} = 6$



$= 6$

"There are 6 equal sets of ¼ in 1½."