Fractions (day 1)



Fractions show part of a whole

Proper fraction has numerator < denom.

Improper fraction has num > den

What does this show?

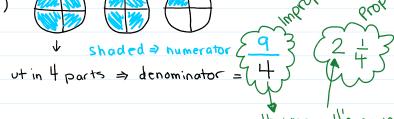












Full



How many 4's go into 9?



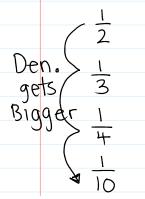


6 pieces 11 shaded

$$\frac{6}{6} = 1$$
 whole $\frac{5}{6}$

Proper =
$$\frac{5}{6}$$

Unit Fractions always has numerator = 1



gets Smaller

ex: amount $\frac{1}{5}$ $\rangle \frac{1}{8}$ 4 10

Look @ times tables.

Multiples:
$$2 \rightarrow 2 + 6 + 8 + 10 \dots$$

 $3 \rightarrow 3 + 6 + 9 + 12 + 16 + 20 \dots$
 $4 \rightarrow 4 + 8 + 12 + 16 + 20 \dots$

Lowest Common Multiple is a value that is a multiple of 2 or more numbers. (LCM/LCD)

ex: find LCM of:

a)
$$3$$
 and $8 = 24$ b) 6 and $9 = 18$

b) 6 and
$$9 = 18$$

3:36912151821243... 6:6121832430.... 8:81624332 9:9(18)27...

We use our Knowledge of LCM to create LCD (Lowest common Denominators) on fractions. This does NOT change their value. We will be making EQUIVALENT Fractions.

ex:
$$\frac{1}{2} = \frac{5}{10} = \frac{2}{4} = \frac{30}{60}$$
 and Den by the SAME value!

Multiply BOTH NUM

ex: find the LCD and equivalent fractions

a)
$$\frac{2^{+4}}{5^{+4}}$$
 and $\frac{3^{+5}}{4^{+5}}$ $\frac{8}{20}$ and $\frac{15}{20}$ — make the "new" $\frac{5}{10}$, $\frac{15}{20}$ $\frac{15}{10}$ denominator the LCD

b)
$$\frac{1}{6} \times \frac{2}{4}$$
 and $\frac{3}{4} \times \frac{3}{12}$ $\frac{2}{12}$ and $\frac{9}{12}$ 6,12,18,24,30 4,8,12,16,20,24

Homework: # 1, 4, 5, 7, 9, 12, 14, 15, 17	