

FINDING EQUIVALENTS (2)

The multiplication grid is filled with equivalent fractions too!

$\frac{1}{2}$ {	1	2	3	4	5	6	7	8	9	10	11	12
	2	4	6	8	10	12	14	16	18	20	22	24
	3	6	9	12	15	18	21	24	27	30	33	36
	4	8	12	16	20	24	28	32	36	40	44	48
$\frac{5}{6}$ {	5	10	15	20	25	30	35	40	45	50	55	60
	6	12	18	24	30	36	42	48	54	60	66	72
	7	14	21	28	35	42	49	56	63	70	77	84
	8	16	24	32	40	48	56	64	72	80	88	96
	9	18	27	36	45	54	63	72	81	90	99	108
	10	20	30	40	50	60	70	80	90	100	110	120
	11	22	33	44	55	66	77	88	99	110	121	132
	12	24	36	48	60	72	84	96	108	120	132	144

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} \text{ etc.}$$

$$\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24} \text{ etc.}$$

$$\frac{8}{10} = \frac{16}{20} = \frac{24}{30} = \frac{32}{40} \text{ etc.}$$

+ - FRACTIONS

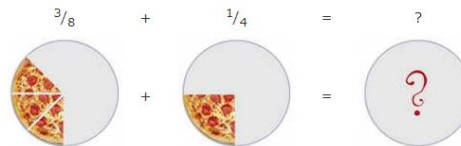
Make all the fractions be from the same family.

Can we make them all the SAME big bottoms?
What common multiple could they have?



We need both fractions to have the same denominator.

Example:



Make it the same big bottom!

$\frac{1}{4}$ is the same as $\frac{2}{8}$ so

$$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

+ - MIXED NUMBERS

Success

$$2\frac{1}{2} - 1\frac{1}{4} =$$

Method

- (1) Make both fractions improper
- (2) Make them both equivalent so you can subtract
- (3) Change your answer back to mixed number

$$1) \frac{5}{2} - \frac{5}{4} =$$

$$2) \frac{10}{4} + \frac{5}{4} = \frac{5}{4}$$

$$3) \frac{5}{4} = 1\frac{1}{4}$$

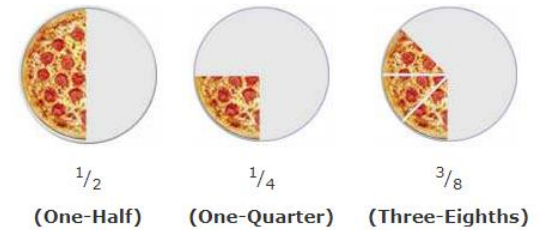


Can we make them all the SAME big bottoms?

MATHS HELP

FRACTIONS

A fraction is a part of a whole.



The top number (numerator) says how many slices we have.

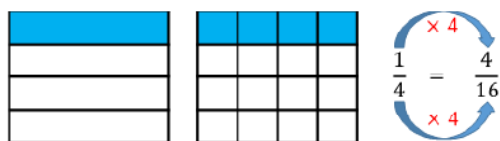
The bottom number (denominator) says how many equal slices the whole pizza was cut into.

Numerator
Denominator

Name

FINDING EQUIVALENT (SAME)

- Multiply the top and bottom by exactly the same number



- When dividing, choose the same number that will allow the top and bottom numbers to stay whole numbers.

$$\frac{18}{36} \xrightarrow{\div 3} \frac{6}{12} \xrightarrow{\div 6} \frac{1}{2}$$



THIS IS FINDING SIMPLEST FORM TOO

Making the fraction as small as it can go!

IMPROPER FRACTION TO MIXED NUMBER

- Divide the numerator by the denominator
- You will make some whole groups and have a remainder
- Write this remainder as a fraction



$$5 \div 4 = 1 \text{ r } 1$$

1 whole group and $\frac{1}{4}$ left

$$= 1 \frac{1}{4}$$

$1 \frac{1}{4}$ is the same as $\frac{5}{4}$

A. Hindle

MIXED NUMBER TO IMPROPER

- Multiply the whole number by the denominator
- Add your answer to the numerator
- Keep the denominator the same



$$1 \times 4 = 4$$

$$4 + 3 = 7$$

$$= \frac{7}{4}$$

$\frac{7}{4}$ is the same as $1 \frac{3}{4}$