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Fractions Revision Videos!

# Fractions

## Fraction of an Amount

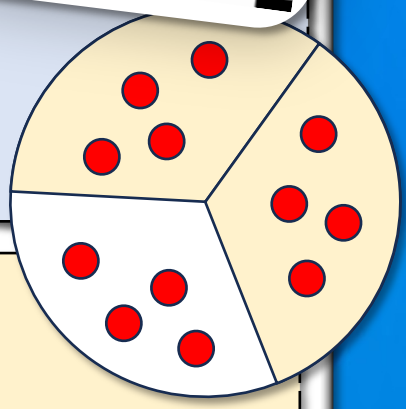
$$\frac{2}{3} \text{ of } 12 = \frac{2}{3} \times 12$$

'of' just means multiply in maths!

Divide by the bottom, and then multiply by the top!

$$12 \div 3 = 4$$

$$4 \times 2 = 8$$



## To Add or Subtract: Common Denominators!

$$\frac{1}{4}{}^{\times 5}_{\times 5} + \frac{3}{5}{}^{\times 4}_{\times 4} =$$

The lowest common multiple of 4 and 5 is 20.

So, we make the denominator 20.

$$\frac{5}{20} + \frac{12}{20} = \frac{17}{20}$$

Start by checking that all fractions are improper fractions.

$$2\frac{1}{3} - 1\frac{5}{6} = \frac{7}{3}{}^{\times 2}_{\times 2} - \frac{11}{6}$$

$$= \frac{14}{6} - \frac{11}{6} = \frac{3}{6}$$

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

Tip!
To find the lowest common multiple, it can help to write out the times tables of both numbers.

## To Multiply:

Multiply the top, multiply the bottom.

$$1\frac{3}{5} \times \frac{5}{6} = \frac{7}{5} \times \frac{5}{6} = \frac{35}{30}{}^{\div 5}_{\div 5}$$

$$= \frac{7}{5} = 1\frac{2}{5}$$

Always simplify your answers if you can!

## To Divide: Keep, Change, Flip

$$\underset{\text{Keep}}{\frac{4}{7}} \underset{\text{Change}}{\div} \underset{\text{Flip}}{\frac{2}{3}} = \frac{4}{7} \times \frac{3}{2} = \frac{12}{14}{}^{\div 2}_{\div 2}$$

$$= \frac{6}{7}$$

Keep the first fraction the same.

Change the divide to multiply.

Flip the last fraction upside down.

## Mixed Numbers To Improper Fractions

$$5\frac{1}{\times 6}{}^{+1} = \frac{5 \times 6 + 1}{6} = \frac{31}{6}$$

The Denominator remains the same!

## Improper Fractions To Mixed Numbers

$$13 \div 5 = 2 \; remainder \; 3$$

$$\frac{13}{5} = 2\frac{3}{5}$$

Learn more at

www.youtube.com/c/AddvanceMaths

https://youtube.com/playlist?list=PLCG7Y8fJFRr8CduEoVQIhJ1YOeAQH6jpt