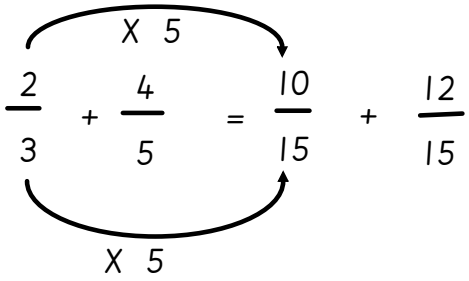
Adding fractions Example



$= \frac{22}{15}$ or $1\frac{7}{15}$

Step 1: Are the denominators the same? If not convert the fractions to equivalent fractions, with the same denominator. (Look for the lowest common multiple)

3 6 9 12 15

5 10 15

Step 2: Add the fractions

Step 3: Check to see if you can simplify the fraction or write it as a mixed number fraction.

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Adding fractions

1. $\frac{3}{6} + \frac{2}{8}$

2. $\frac{6}{10} + \frac{4}{5}$

3. $\frac{4}{9} + \frac{2}{3}$

4. $\frac{3}{5} + \frac{2}{4}$

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Subtracting Fractions

Follow the same steps as you did for addition, make sure both fractions have the same denominator, but this time subtract.

1. $\frac{4}{10} - \frac{1}{5}$

2. $\frac{7}{9} - \frac{1}{3}$

3. $\frac{8}{3} - \frac{5}{6}$

4. $\frac{7}{12} - \frac{1}{8}$

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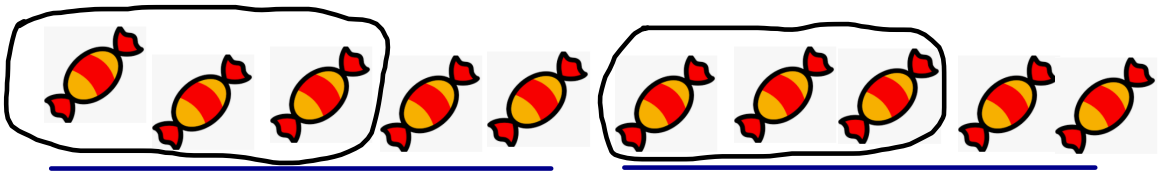
Finding fractions of a set

Example



Circle $\frac{3}{5}$ of the sweets.

Remember $\frac{3}{5}$ means 3 in every group of 5

Find groups of 5 circle 3 in each group.

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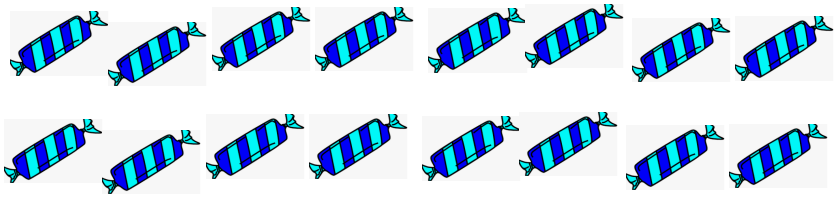
Circle $\frac{3}{4}$ of the sweets



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Circle $\frac{2}{7}$ of the lollies

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Finding fractions of an amount

Find $\frac{2}{3}$ of 198

Just like when we found fractions of a set, we need to look at the denominator to see what groups we are interested in.

Remember $\frac{2}{3}$ means 2 in every group of 3.

Step 1

$$3 \overline{)198} = 66$$

So for Step 1 we have to find out how many groups of 3 there are in 198. To do this we divide by 3.

So, there are 66 groups of 3 in 198.

Step 2

$$66 \times 2 = 132$$

As we are finding $\frac{2}{3}$ of 198 we need 2 from each group. So step 2 is to multiply 66 by the numerator 2.

$\frac{2}{3}$ of 198 = 132

Fast Forward

To find fractions of an amount we divide by the denominator and then multiply that answer by the numerator.

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Finding fractions of an amount

1. Find $\frac{3}{4}$ of 172

2. Find $\frac{4}{5}$ of 455

3. Find $\frac{2}{3}$ of 642

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