


Fractions - Lesson 9

In the last lesson you were shown two methods of adding fractions. Both have their advantages and disadvantages. You are free to use whichever method you feel most comfortable with.

Reminder

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

Method 1	Method 2
$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$ <p>Turned both fractions into the equivalent fraction over 12 because 4 and 3 both go into 12 i.e. it is the lowest common multiple (LCM) of 4 and 3.</p>	$\frac{1}{4} * \frac{2}{3} = \frac{1 \times 3 + 2 \times 4}{4 \times 3} = \frac{3 + 8}{12} = \frac{11}{12}$  <p>Kiss and smile method. Once you get used to it you may not need to write down the second stage.</p>

Now try these examples: -

1) $\frac{1}{3} + \frac{1}{2}$

2) $\frac{1}{3} + \frac{2}{5}$

3) $\frac{2}{3} + \frac{1}{7}$

4) $\frac{1}{3} + \frac{2}{7}$

5) $\frac{2}{3} + \frac{2}{7}$

6) $\frac{1}{5} + \frac{3}{4}$

7) $\frac{2}{5} + \frac{1}{4}$

8) $\frac{3}{5} + \frac{1}{3}$


9) $\frac{4}{5} + \frac{1}{7}$

10) $\frac{3}{5} + \frac{2}{7}$

Sometimes it is necessary to simplify your answer but, with Method 1, this can often be avoided.

Example

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

Method 1	Method 2
$\frac{3}{8} + \frac{1}{2} = \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ <p>Notice that 2 goes into 8 so we can use 8 on the bottom rather than 16. This means we don't need to simplify our answer</p>	$\frac{3}{8} * \frac{1}{2} = \frac{6 + 8}{8 \times 2} = \frac{14}{16} = \frac{7}{8}$  <p>We need to remember to simplify our answer if we use this method.</p>

Now try these examples. Make sure you have simplified your answer.

$$11) \frac{1}{8} + \frac{3}{4}$$

$$12) \frac{1}{4} + \frac{5}{8}$$

$$13) \frac{1}{4} + \frac{1}{6}$$

$$14) \frac{3}{5} + \frac{1}{10}$$

$$15) \frac{1}{4} + \frac{3}{10}$$

$$16) \frac{1}{3} + \frac{2}{9}$$

$$17) \frac{1}{6} + \frac{2}{9}$$

$$18) \frac{5}{9} + \frac{1}{3}$$

$$19) \frac{1}{9} + \frac{2}{3}$$

$$20) \frac{5}{6} + \frac{1}{9}$$