Fractions

a) $\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4}$

$= \frac{5}{4}$

$\frac{4}{8} + \frac{6}{8}$

$= \frac{10}{8}$ reduce

$= \frac{5}{4}$

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

$= \frac{7}{3} + \frac{7}{5}$

$= \frac{35}{15} + \frac{21}{15}$

$= \frac{56}{15}$ or $3\frac{11}{15}$

$2\frac{5}{15} + 1\frac{6}{15}$

$= 3\frac{11}{15}$

c) $2\frac{2}{3} - 1\frac{4}{5} = \frac{8}{3} - \frac{9}{5}$

$\frac{15}{15}$ $\frac{15}{15}$

$2\frac{10}{15} - 1\frac{12}{15}$ $= \frac{40}{15} - \frac{27}{15}$

$1\frac{25}{15} - 1\frac{12}{15}$ $= \frac{13}{15}$

$\frac{13}{15}$

Why do we learn how to calculate fractions?
We could use a calculator...

Try this:

$$\frac{2}{a} + \frac{4}{3}a = \frac{6}{3a} + \frac{4a^2}{3a}$$

$$= \frac{6+4a^2}{3a}$$

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Multiply

$1\frac{4}{5} \times \frac{2}{3}$

$\frac{9}{5} \times \frac{2}{3}$

$\frac{18}{15}$

$\frac{6}{5}$ or $1\frac{1}{5}$

Divide

$\frac{6}{7} \div 1\frac{1}{2}$

$\frac{6}{7} \div \frac{3}{2}$

$\frac{6}{7} \times \frac{2}{3}$

$\frac{12}{21}$

$\frac{4}{7}$

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Homework

Fractions worksheet 1-12

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