



**MATHSWATCH CLIP - N3, N16, N17, C17, C24, C27, C28A, C28B**

## Fractions

- We expect pupils to:  
Do simple fractions of 1 or 2 digit numbers e.g.

$$\frac{1}{3} \text{ of } 9 = 3 \quad (9 \div 3) \qquad \frac{1}{5} \text{ of } 70 = 14 \quad (70 \div 5)$$

- we expect pupils to:  
Do simple fractions of up to 4 digit numbers e.g.

$$\frac{3}{4} \text{ of } 176 = 132 \quad (176 \div 4 \times 3)$$

Use equivalence of widely used fractions and decimals e.g.  $\frac{3}{10} = 0.3$

Find widely used fractions mentally  
Find fractions of a quantity with a calculator.

- We:  
Use equivalence of all fractions, decimals and percentages  
Add, subtract, multiply and divide fractions with and without a calculator.

### WORKED EXAMPLES

Add and Subtract	Multiply	Divide
Make the denominators equal	Multiply top and multiply bottom	Invert the second fraction and multiply

$\frac{1}{2} + \frac{1}{3}$ $= \frac{3}{6} + \frac{2}{6}$ $= \frac{5}{6}$	$\frac{2}{3} \times \frac{3}{4}$ $= \frac{6}{12} \quad (\text{Simplify})$ $= \frac{1}{2}$	$\frac{3}{4} \div \frac{2}{5} \text{ (times and flip)}$ $= \frac{3}{4} \times \frac{5}{2}$ $= \frac{15}{8} \text{ (Improper fraction)}$ $= 1\frac{7}{8}$
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