

### Adding Fractions

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Leave your answers as simplified fractions or mixed numbers where appropriate.

(1)  $\frac{1}{3} + \frac{1}{3} =$

(2)  $\frac{2}{5} + \frac{1}{5} =$

(3)  $\frac{4}{7} + \frac{2}{7} =$

(4)  $\frac{3}{4} + \frac{1}{8} =$

(5)  $\frac{1}{3} + \frac{2}{9} =$

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

(7)  $\frac{3}{4} + \frac{5}{6} =$

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

(9)  $\frac{3}{5} + \frac{3}{4} =$

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

(11)  $\frac{1}{2} + \frac{2}{3} + \frac{1}{6} =$

(12)  $1\frac{3}{4} + 2\frac{1}{3} =$

(13)  $5\frac{1}{8} + 3\frac{2}{5} =$

(14)  $\frac{3}{4} + 3\frac{1}{7} =$

(15)  $\frac{1}{x} + \frac{2}{y} =$

(16) At a school one third of the pupils are in year 7 and one half of the pupils are in year 8. How many pupils are **not** in year 7 or year 8 at the school?

### Subtracting Fractions

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(1)  $\frac{3}{5} - \frac{2}{5} =$

(2)  $\frac{3}{4} - \frac{1}{4} =$

(3)  $\frac{7}{12} - \frac{1}{3} =$

(4)  $\frac{7}{12} - \frac{5}{6} =$

(5)  $\frac{1}{3} - \frac{1}{4} =$

(6)  $\frac{4}{5} - \frac{3}{4} =$

(7)  $\frac{7}{4} - \frac{1}{6} =$

(8)  $\frac{2}{9} - \frac{1}{2} =$

(9)  $\frac{2}{3} - \frac{7}{8} =$

(10)  $\frac{2}{5} - \frac{9}{4} =$

(11)  $4\frac{3}{4} - 1\frac{1}{2} =$

(12)  $5\frac{1}{3} - 3\frac{1}{4} =$

(13)  $7\frac{2}{5} - 2\frac{2}{3} =$

(14)  $\frac{1}{a} - \frac{1}{b} =$

(15)  $3 + \frac{4}{p} =$

(16) Fred has seven eighths of a bag of sweets at home. He eats one fifth of the remaining sweets. What fraction of the bag of sweets has he now got left?

### Multiplying Fractions

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(1)  $\frac{1}{2} \times \frac{1}{3} =$

(2)  $\frac{2}{3} \times \frac{1}{7} =$

(3)  $\frac{2}{3} \times \frac{1}{2} =$

(4)  $\frac{3}{4} \times \frac{3}{5} =$

(5)  $\frac{3}{5} \times \frac{1}{6} =$

(6)  $\frac{2}{3} \times \frac{7}{8} =$

(7)  $\frac{8}{7} \times \frac{7}{8} =$

(8)  $4 \times \frac{7}{3} =$

(9)  $\frac{3}{5} \times 6 =$

(10)  $\frac{1}{2} \times \frac{4}{7} \times \frac{2}{3} =$

(11)  $\frac{1}{5} \times \frac{2}{3} \times \frac{2}{5} =$

(12)  $1\frac{2}{5} \times 3\frac{2}{3} =$

(13)  $4\frac{1}{6} \times 2\frac{2}{5} =$

(14)  $\frac{4}{a} \times \frac{3}{b} =$

(15)  $\frac{5}{a} \times \frac{2}{b} \times \frac{d}{c} =$

(16) Jane ate one third of 2 fifths of a cake. What fraction of the cake did she eat?

### Dividing Fractions

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Leave your answers as simplified fractions or mixed numbers where appropriate.

(1)  $\frac{1}{3} \div \frac{1}{2} =$

(2)  $\frac{1}{5} \div \frac{1}{4} =$

(3)  $\frac{2}{5} \div \frac{1}{2} =$

(4)  $\frac{3}{4} \div \frac{1}{3} =$

(5)  $\frac{9}{7} \div 3 =$

(6)  $4 \div \frac{1}{5} =$

(7)  $\frac{9}{7} \div \frac{9}{7} =$

(8)  $\frac{2}{3} \div \frac{4}{9} =$

(9)  $\frac{9}{8} \div \frac{4}{9} =$

(10)  $\frac{4}{3} \div \frac{4}{5} =$

(11)  $\frac{5}{3} \div \left( \frac{5}{6} \times \frac{3}{5} \right) =$

(12)  $2\frac{1}{3} \div 1\frac{1}{5} =$

(13)  $3\frac{2}{7} \div 2\frac{2}{3} =$

(14)  $\frac{1}{a} \div \frac{2}{b} =$

(15)  $\frac{a}{b} \div \frac{c}{d} =$

(16) Kevin is seeing how many eighths he can cut from one quarter of a cake. How many would you expect him to be able to cut?