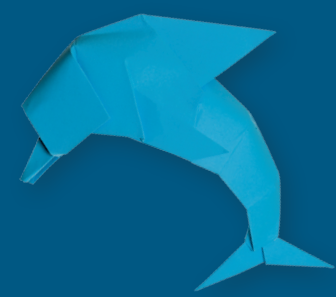


# GCSE (9–1) Mathematics

## Conversions



| Decimal | Percentage | Fraction<br>(out of 100) | Fraction<br>(simplest form) | Ratio<br>(of 100 items) | Ratio<br>(simplest form) |
|---------|------------|--------------------------|-----------------------------|-------------------------|--------------------------|
| 0.01    | 1%         | $\frac{1}{100}$          | $\frac{1}{100}$             | 1 : 99                  | 1 : 99                   |
| 0.02    | 2%         | $\frac{2}{100}$          | $\frac{1}{50}$              | 2 : 98                  | 1 : 49                   |
| 0.03    | 3%         | $\frac{3}{100}$          | $\frac{3}{100}$             | 3 : 97                  | 3 : 97                   |
| 0.04    | 4%         | $\frac{4}{100}$          | $\frac{1}{25}$              | 4 : 96                  | 1 : 24                   |
| 0.05    | 5%         | $\frac{5}{100}$          | $\frac{1}{20}$              | 5 : 95                  | 1 : 19                   |
| 0.06    | 6%         | $\frac{6}{100}$          | $\frac{3}{50}$              | 6 : 94                  | 3 : 47                   |
| 0.07    | 7%         | $\frac{7}{100}$          | $\frac{7}{100}$             | 7 : 93                  | 7 : 93                   |
| 0.08    | 8%         | $\frac{8}{100}$          | $\frac{2}{25}$              | 8 : 92                  | 2 : 23                   |
| 0.09    | 9%         | $\frac{9}{100}$          | $\frac{9}{100}$             | 9 : 91                  | 9 : 91                   |
| 0.1     | 10%        | $\frac{10}{100}$         | $\frac{1}{10}$              | 10 : 90                 | 1 : 9                    |

| Decimal | Percentage | Fraction<br>(out of 100) | Fraction<br>(simplest form) | Ratio<br>(of 100 items) | Ratio<br>(simplest form) |
|---------|------------|--------------------------|-----------------------------|-------------------------|--------------------------|
| 0.1     | 10%        | $\frac{10}{100}$         | $\frac{1}{10}$              | 10 : 90                 | 1 : 9                    |
| 0.2     | 20%        | $\frac{20}{100}$         | $\frac{1}{5}$               | 20 : 80                 | 1 : 4                    |
| 0.25    | 25%        | $\frac{25}{100}$         | $\frac{1}{4}$               | 25 : 75                 | 1 : 3                    |
| 0.3     | 30%        | $\frac{30}{100}$         | $\frac{3}{10}$              | 30 : 70                 | 3 : 7                    |
| 0.4     | 40%        | $\frac{40}{100}$         | $\frac{2}{5}$               | 40 : 60                 | 2 : 3                    |
| 0.5     | 50%        | $\frac{50}{100}$         | $\frac{1}{2}$               | 50 : 50                 | 1 : 1                    |
| 0.6     | 60%        | $\frac{60}{100}$         | $\frac{3}{5}$               | 60 : 40                 | 3 : 2                    |
| 0.7     | 70%        | $\frac{70}{100}$         | $\frac{7}{10}$              | 70 : 30                 | 7 : 3                    |
| 0.75    | 75%        | $\frac{75}{100}$         | $\frac{3}{4}$               | 75 : 25                 | 3 : 1                    |
| 0.8     | 80%        | $\frac{80}{100}$         | $\frac{4}{5}$               | 80 : 20                 | 4 : 1                    |
| 0.9     | 90%        | $\frac{90}{100}$         | $\frac{9}{10}$              | 90 : 10                 | 9 : 1                    |