



Year 3 - Maths Cheat Sheet

Reference

A quick reference for the methods and terms that come up in Year 3 maths - not every parent used these exact methods at school, so this is here as a refresher for column addition and subtraction, times tables, and the other key terms your child will meet this year.

The Two Main Operations

Addition (Column Method)

Line up the numbers by place value - ones under ones, tens under tens. Add each column from the right. If a column totals 10 or more, carry the extra ten into the next column.

$$\begin{array}{r} 47 \\ + 38 \\ \hline 85 \end{array}$$

Subtraction (Column Method)

Line up the numbers by place value. Subtract each column from the right. If the top digit is smaller than the bottom one, borrow 10 from the column to its left.

$$\begin{array}{r} 72 \\ - 35 \\ \hline 37 \end{array}$$

Times Tables Shortcuts

×10

add a zero on the end.

$$4 \times 10 = 40$$

×4

double the number, then double again.

$$6 \times 4: 6 \times 2 = 12, 12 \times 2 = 24$$

×8

double the number three times (double, double, double).

$$5 \times 8: 5 \times 2 = 10, 10 \times 2 = 20, 20 \times 2 = 40$$

Fractions

Unit fraction

a fraction with 1 as the top number (numerator) - it means one equal part of a whole.

$1/4$ means one part out of four equal parts

Non-unit fraction

a fraction with a top number greater than 1.

$3/4$ means three parts out of four equal parts

Finding a fraction of an amount

divide by the bottom number, then multiply by the top number.

$$\begin{array}{l} 1/4 \text{ of } 20: \\ 20 \div 4 = 5 \\ \text{Answer: } 5 \end{array}$$

Measurement & Time

Length

1 metre = 100cm.

250cm = 2m 50cm

Mass

1kg = 1,000g.

1,500g = 1kg 500g

Time

1 hour = 60 minutes; 1 minute = 60 seconds.

90 minutes = 1 hour 30 minutes

Shape Terms**Right angle**

exactly a quarter turn (90°).

Regular shape

a shape where all sides and angles are equal.

a square is a regular quadrilateral

Vertex / Vertices

the correct word for a corner (or corners) of a shape.