

Area & Perimeter

5th Grade

Formulas for every shape they meet this year, with a labelled diagram each.

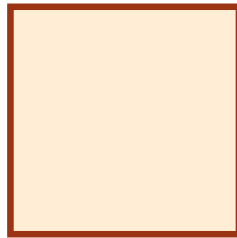
AREA — the space inside

Rectangle



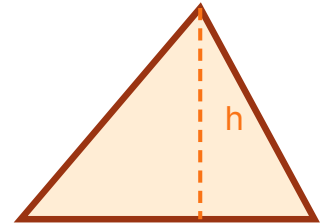
$$A = l \times w$$

Square



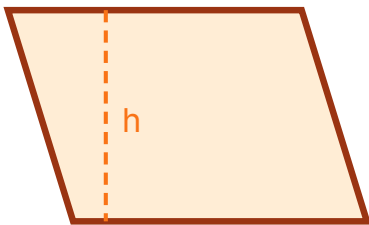
$$A = s^2$$

Triangle



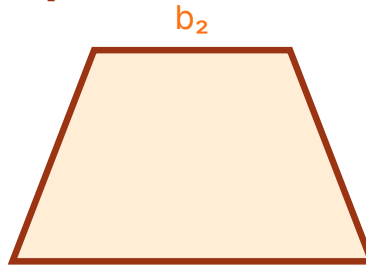
$$A = \frac{1}{2} \times b \times h$$

Parallelogram



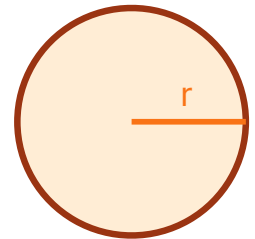
$$A = b \times h$$

Trapezoid



$$A = \frac{1}{2}(b_1 + b_2)h$$

Circle



$$A = \pi r^2$$

PERIMETER — the distance around

Any shape **add every side**

Rectangle **$P = 2l + 2w$**

Square **$P = 4s$**

Circle (circumference) **$C = 2\pi r = \pi d$**

UNITS

Perimeter is measured in cm. Area is measured in cm^2 — always squared.

Perimeter is the fence around the field. Area is the grass inside it.