Areas

Area of a square =
$$(side)^2$$
 or $b \bullet h$ (11.1)

Area of a rectangle =
$$b \bullet h$$
 (11.1)

Area of a parallelogram =
$$b \bullet h$$
 (11.2)

Area of a triangle =
$$\frac{1}{2} \bullet b \bullet h$$
 (11.2)

Area of a rhombus =
$$\frac{1}{2} \bullet d_1 \bullet d_2$$
 (11.2)

Area of a kite =
$$\frac{1}{2} \bullet d_1 \bullet d_2$$
 (11.2)

Area of a trapezoid =
$$\frac{1}{2} \bullet (b_1 + b_2) \bullet h$$
 or *median* \bullet *height* (11.3)

Area of a regular polygon =
$$\frac{1}{2} \bullet a \bullet p$$
 (11.4)

Area of a circle =
$$\pi \bullet r^2$$
 (11.5)

Area of a circle sector =
$$\frac{n}{360} \bullet \pi \bullet r^2$$
 (11.6)

Lengths

Circumference of a circle =
$$2\pi \bullet r$$
 or $\pi \bullet d$ (11.5)

Arc length =
$$\frac{n}{360} \bullet 2\pi \bullet r$$
 or $\frac{n}{360} \bullet \pi \bullet d$ (11.6)

Ratios

For similar figures \rightarrow If ratio of perimeters is *a*:*b*, then ratio of areas is $a^2:b^2$. (11.7)

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