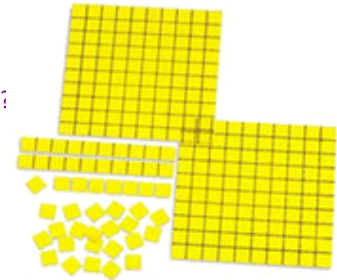


Lesson 36 Perimeter and Area

Perimeter: is the length of a closed line that corresponds to the boundary of a plane figure. units of length??



Area: is the measure of the surface defined by a figure. units squared??





Conversion:

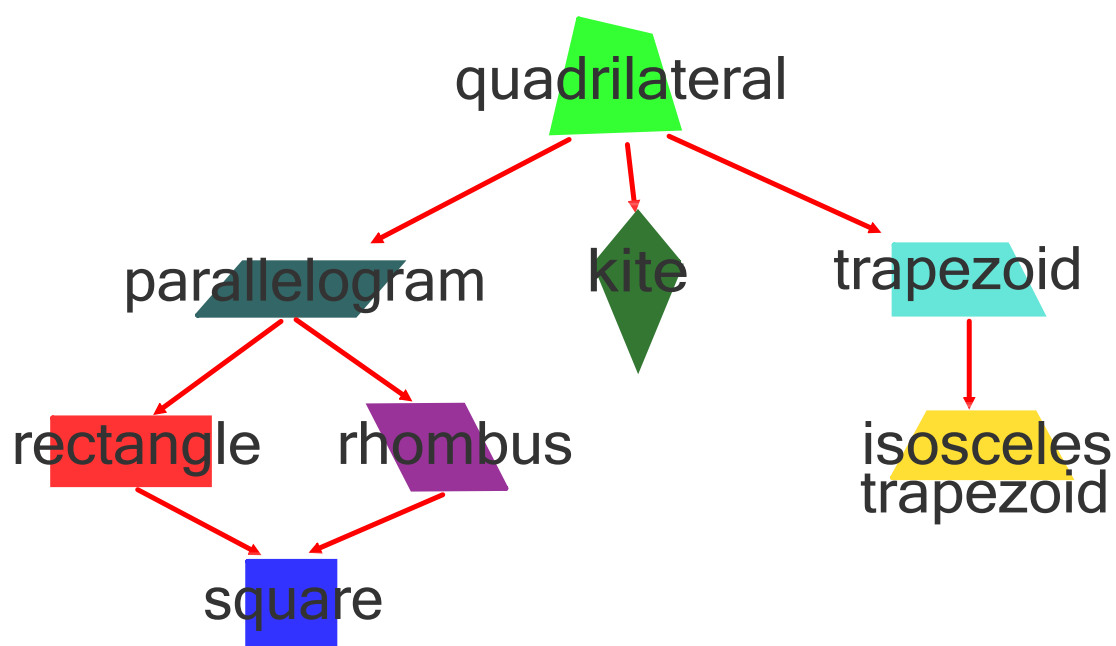
Kilo	Hecto	Deca	Unit	Deci	Centi	Milli
km	hm	dam	Meter	dm	cm	mm
kl	hl	dal	Liter	dl	cl	ml
kg	hg	dag	Grams	dg	cg	mg

$17 \text{ km}^2 = 17.000000 \text{ m}^2$
 $14 \text{ mm}^2 = 0.14 \text{ cm}^2$

Choice of Unit of Measure for Area

Name of area unit	Symbol	Example of appropriate context
Square kilometre	km ²	Area of 100 soccer fields
Square hectometre	hm ²	Area of one soccer field
Square decametre	dam ²	Area of half a tennis court
Square metre	m ²	Area of the work surface of a classroom desk
Square decimetre	dm ²	Area of the palm of a hand
Square centimetre	cm ²	Area of this square: 
Square millimetre	mm ²	Area of this square: 

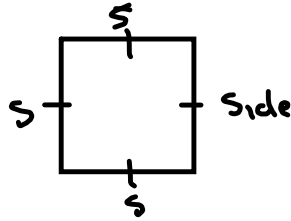




Formulas

Add all sides
↙

SQUARE



AREA

$$A = (\text{side})(\text{side})$$

$$A = (s)(s)$$

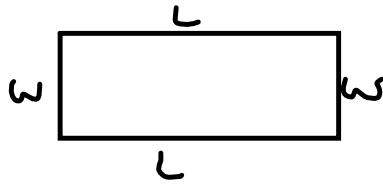
$$= s^2$$

PERIMETER

$$P = 4(\text{side})$$

$$= s + s + s + s$$

RECTANGLE



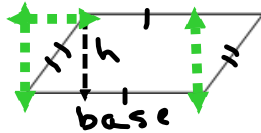
$$A = L \times w$$

$$L(w)$$

$$P = w + L + w + L$$

$$= 2L + 2w$$

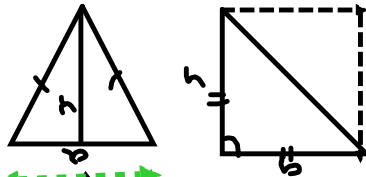
PARALLELOGRAM



$$A = h(b)$$

P = Add all sides

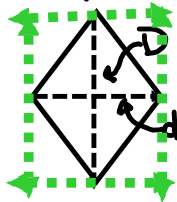
TRIANGLE



$$A = \frac{bh}{2}$$

P = Add all sides

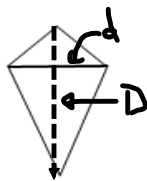
RHOMBUS



$$A = \frac{D(d)}{2}$$

P =

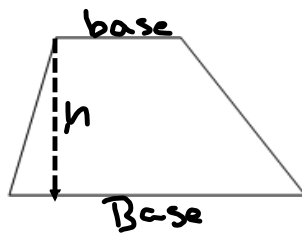
KITE



$$A = \frac{D(d)}{2}$$

P =

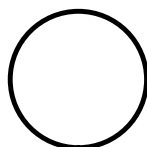
TRAPEZOID



$$A = \frac{h(B+b)}{2}$$

P =

CIRCLE

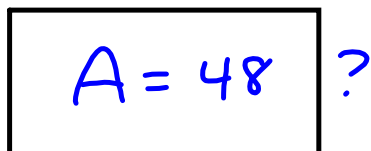


$$A = \pi r^2$$

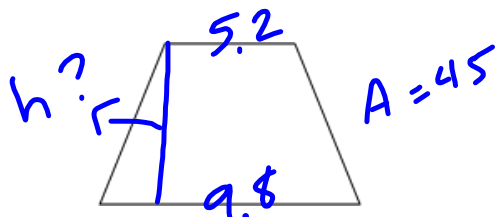
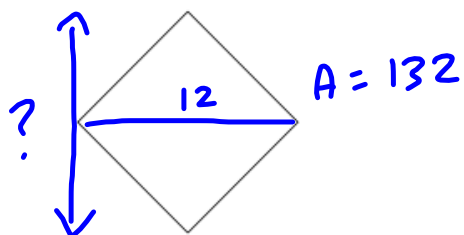
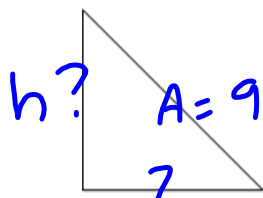
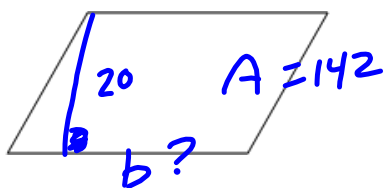
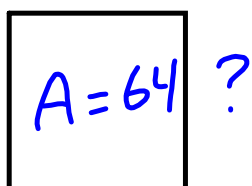
$$P = 2\pi r$$

Solving Equations

Finding the value of the variable is the solution



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Attachments

beauty in nature.asf