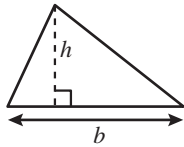


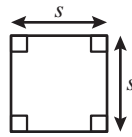
# Grade 8 Mathematics Formula Sheet

## 2009 Mathematics Standards of Learning

### Geometric Formulas

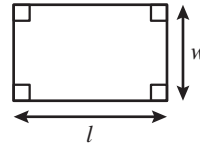


$$A = \frac{1}{2}bh$$



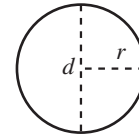
$$p = 4s$$

$$A = s^2$$



$$p = 2l + 2w$$

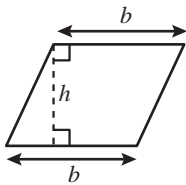
$$A = lw$$



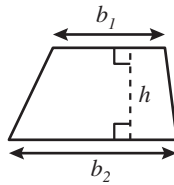
$$C = 2\pi r$$

$$C = \pi d$$

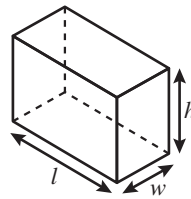
$$A = \pi r^2$$



$$A = bh$$

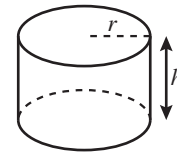


$$A = \frac{1}{2}h(b_1 + b_2)$$



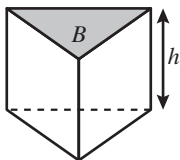
$$V = lwh$$

$$S.A. = 2lw + 2lh + 2wh$$



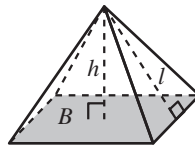
$$V = \pi r^2 h$$

$$S.A. = 2\pi r^2 + 2\pi rh$$



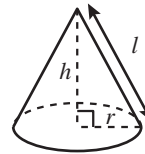
$$V = Bh$$

$$S.A. = hp + 2B$$



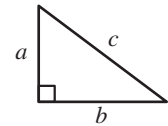
$$V = \frac{1}{3}Bh$$

$$S.A. = \frac{1}{2}lp + B$$



$$V = \frac{1}{3}\pi r^2 h$$

$$S.A. = \pi r^2 + \pi rl$$



$$a^2 + b^2 = c^2$$

### Abbreviations

milligram	mg
gram	g
kilogram	kg
milliliter	mL
liter	L
kiloliter	kL
millimeter	mm
centimeter	cm
meter	m
kilometer	km
square centimeter	cm <sup>2</sup>
cubic centimeter	cm <sup>3</sup>

ounce	oz
pound	lb
quart	qt
gallon	gal.
inch	in.
foot	ft
yard	yd
mile	mi.
square inch	sq in.
square foot	sq ft
cubic inch	cu in.
cubic foot	cu ft

Area	A
Area of Base	B
Circumference	C
Perimeter	p
Surface Area	S.A.
Volume	V

**Pi**

$$\pi \approx 3.14$$

$$\pi \approx \frac{22}{7}$$