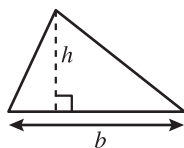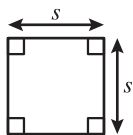# Middle School Mathematics Formula Sheet
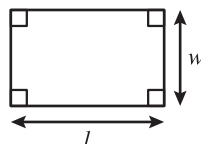## 2016 *Mathematics Standards of Learning*

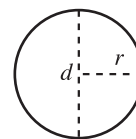## Geometric Formulas

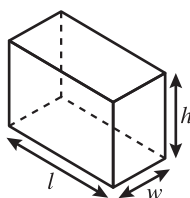$$A = \frac{1}{2}bh$$

$$p = 4s$$
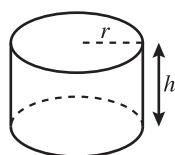$$A = s^2$$

$$p = 2l + 2w$$
$$A = lw$$
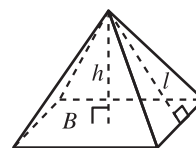
$$C = 2\pi r$$
$$C = \pi d$$
$$A = \pi r^2$$

$$V = lwh$$
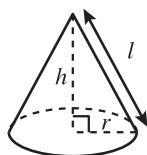$$S.A. = 2lw + 2lh + 2wh$$
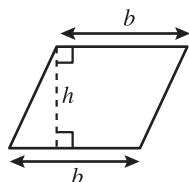
$$V = \pi r^2 h$$
$$S.A. = 2\pi r^2 + 2\pi rh$$

$$V = \frac{1}{3}Bh$$
$$S.A. = \frac{1}{2}lp + B$$

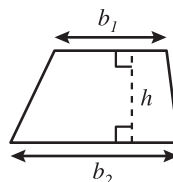$$V = \frac{1}{3}\pi r^2 h$$
$$S.A. = \pi r^2 + \pi rl$$
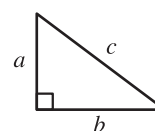
$$A = bh$$

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

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

Abbreviations

milligram	mg	ounce	oz	Area	A
gram	g	pound	lb	Area of Base	B
kilogram	kg	quart	qt	Circumference	C
milliliter	mL	gallon	gal.	Perimeter	p
liter	L	inch	in.	Surface Area	$S.A.$
kiloliter	kL	foot	ft	Volume	V
millimeter	mm	yard	yd		
centimeter	cm	mile	mi.		
meter	m	square inch	sq in.		
kilometer	km	square foot	sq ft		
square centimeter	cm^2	cubic inch	cu in.		
cubic centimeter	cm^3	cubic foot	cu ft		

Pi

$$\pi \approx 3.14$$

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