MATHEMATICS

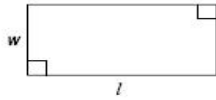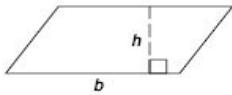## *FORMULA SHEET*

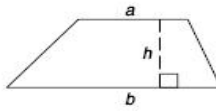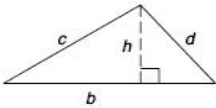| Formulas that you may need to work questions are found below. You may use calculator π or the number 3.14.	2008 Grade 8

$P = 2l + 2w$
$A = lw$

$A = bh$
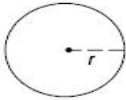
$A = \frac{1}{2}h(a + b)$
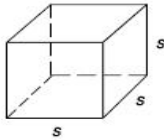
$P = b + c + d$
$A = \frac{1}{2}bh$
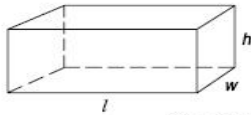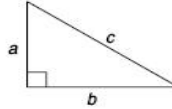
$C = 2\pi r$
$A = \pi r^2$

$SA = 6s^2$
$V = s \cdot s \cdot s$

$SA = 2lw + 2lh + 2wh$
$V = lwh$

Pythagorean Theorem :
$a^2 + b^2 = c^2$

Distance : $d = rt$

Simple Interest : $I = prt$

Degrees in a 3 to 8 sided figure :

Sum of angle measures $= 180(n - 2)$, where $n =$ number of sides

Temperature Conversions :

$^\circ C = \frac{5}{9}(^\circ F - 32)$ $^\circ F = \frac{9}{5}\,^\circ C + 32$

Customary Conversions :

1 mile = 5,280 feet (ft)
1 yard (yd) = 3 feet
1 foot = 12 inches (in.)

1 ton (T) = 2,000 pounds (lb)
1 pound = 16 ounces (oz.)

1 gallon (gal) = 4 quarts (qt)
1 quart = 2 pints (pt)
1 pint = 2 cups (c)
1 cup = 8 fluid ounces

1 day = 24 hours (hr)
1 hour = 60 minutes (min)
1 minute = 60 seconds (sec)

Metric Conversions :

1 kilometer = 1000 meters
1 hectometer = 100 meters
1 dekameter = 10 meters
1 meter
1 decimeter = 0.1 meter
1 centimeter = 0.01 meter
1 millimeter = 0.001 meter