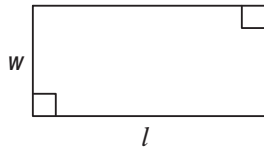


## 2007 Grade 8 Formula Sheet

Formulas that you may need to work questions on this test are found below.

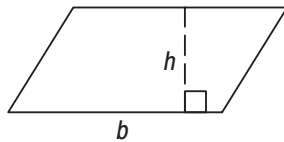
You may refer back to this page at any time during the mathematics test.

You may use calculator  $\pi$  or the number 3.14.

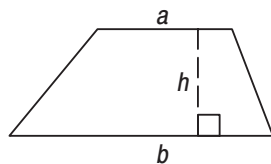


$$P = 2l + 2w$$

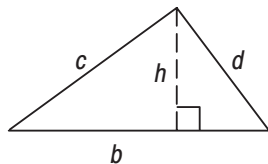
$$A = lw$$



$$A = bh$$

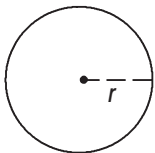


$$A = \frac{1}{2}h(a + b)$$



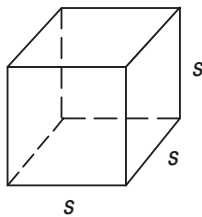
$$P = b + c + d$$

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



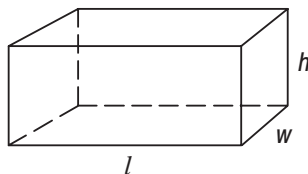
$$C = 2\pi r$$

$$A = \pi r^2$$



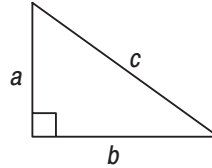
$$SA = 6s^2$$

$$V = s \cdot s \cdot s$$



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

$$V = lwh$$



**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 :**

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

**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