

Grades 6-8 FCAT Mathematics Reference Sheet



Triangle

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



Rectangle

$A = lw$



Trapezoid

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



Parallelogram

$A = bh$



Circle

$A = r^2$

KEY

b = base
h = height
l = length
w = width
S.A. = Surface area
V = volume

d = diameter
r = radius
A = area
C = circumference
V = volume

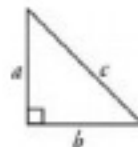
Use 3.14 or $\frac{22}{7}$ for

Circumference

$C = d = 2r$

In a polygon, the sum of the measures of the interior angles is equal to $180(n - 2)$, where n represents the number of sides.

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



Right Circular Cylinder

Volume
 $V = r^2h$

Total Surface Area

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



Rectangular Solid

$V = lwh$

$S.A. = 2(lw) + 2(hw) + 2(wh)$

Conversions

1 yard = 3 feet = 36 inches
1 mile = 1,760 yards = 5,280 feet
1 acre = 43,560 square feet
1 hour = 60 minutes
1 minute = 60 seconds

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

1 liter = 1000 milliliters = 1000 cubic centimeters
1 meter = 100 centimeters = 1000 millimeters
1 kilogram = 1000 grams
1 gram = 1000 milligrams
1 kilogram = 1000 grams

1 pound = 16 ounces
1 ton = 2,000 pounds

Metric numbers with four digits are represented without a comma (e.g., 9960 kilometers). For metric number greater than four digits, a space is used instead of a comma (e.g., 12 500 liters).