RIDE Rhode Island Department of Education

Rhode Island Comprehensive Assessment System
Grade 7 Mathematics Reference Sheet

CONVERSIONS

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon ≈ 3.785 liters

1 liter ≈ 0.264 gallon

1 liter = 1000 cubic centimeters

1 inch = 2.54 centimeters

1 meter ≈ 39.37 inches

1 mile = 5280 feet

1 mile = 1760 yards

1 mile ≈ 1.609 kilometers

1 kilometer ≈ 0.62 mile

1 pound = 16 ounces

1 pound ≈ 0.454 kilogram

1 kilogram ≈ 2.2 pounds

1 ton = 2000 pounds

AREA (A) FORMULAS

square . . . . $A = s^2$

rectangle . . . . . $A = bh$

OR

$A = lw$

parallelogram . . $A = bh$

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

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

circle . . . . $A = \pi r^2$

VOLUME (V) FORMULAS

cube . . . . $V = s^3$

(s = length of an edge)

right prism . . . . $V = Bh$

TOTAL SURFACE AREA (SA) FORMULAS

right rectangular prism . . $SA = 2(lw) + 2(hw) + 2(lh)$

CIRCLE FORMULAS

area . . . . $A = \pi r^2$

circumference . . $C = 2\pi r$

OR

$C = \pi d$