B.1 Mathematics Reference Sheet Grades 3–5

Standard Units	Metric Units
Conversions – Length	
1 yard (yd) = 3 feet (ft) = 36 inches (in)	1 centimeter (cm) = 10 millimeters (mm)
1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)	1 meter (m) = 100 centimeters (cm)
	1 kilometer (km) = 1,000 meters (m)
Conversions – Volume	
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (l) = 1,000 milliliters (ml)
1 pint (pt) = 2 cups (c)	1 liter (l) = 1,000 cubic centimeters (cc)
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	
Conversions – Weight/Mass	
1 pound (lb) = 16 ounces (oz)	1 gram (g) = 1,000 milligrams (mg)
1 ton = 2,000 pounds (lb)	1 kilogram (kg) = 1,000 grams (g)
Conversions – Time	
1 minute (min) = 60 seconds (sec)	
1 hour (hr) = 60 minutes (min)	
1 day = 24 hours (hr)	

Grade Level(s)	Figure	Formula
Area		
3, 4, 5	Rectangle	$A = l \times w$
3, 4, 5	Square	$A = s \times s$
Volume		
5	Rectangular Prism	$V = B \times h$
Note: The volume *V* of all prisms is *V* = *B* × *h* where *B* is the area of the base and *h* is the height of the prism.		

(Appendices — side tab)