

SC READY Mathematics Reference Sheet

Grade 4

Conversions
Customary
1 foot = 12 inches 1 yard = 3 feet
1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts
1 pound = 16 ounces

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Grade 5

Conversions	
Metric	Customary
1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters	1 foot = 12 inches 1 yard = 3 feet
1 centiliter = 10 milliliters 1 liter = 100 centiliters 1 kiloliter = 1,000 liters	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts
1 centigram = 10 milligrams 1 gram = 100 centigrams 1 kilogram = 1,000 grams	1 pound = 16 ounces

Time
60 seconds = 1 minute 60 minutes = 1 hour

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Grade 6

Conversions	
Metric	Customary
1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet
1 centiliter = 10 milliliters 1 liter = 100 centiliters 1 kiloliter = 1,000 liters	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts
1 centigram = 10 milligrams 1 gram = 100 centigrams 1 kilogram = 1,000 grams	1 pound = 16 ounces 1 ton = 2,000 pounds

Time
60 seconds = 1 minute 60 minutes = 1 hour

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Grade 7

Conversions	
Metric	Customary
1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet
1 centiliter = 10 milliliters 1 liter = 100 centiliters 1 kiloliter = 1,000 liters	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts
1 centigram = 10 milligrams 1 gram = 100 centigrams 1 kilogram = 1,000 grams	1 pound = 16 ounces 1 ton = 2,000 pounds

Time
60 seconds = 1 minute 60 minutes = 1 hour

Approximate Conversions		
Metric	to	Customary
2.54 centimeter	=	1 inch
1.609 kilometer	≈	1 mile
0.946 liter	≈	1 quart
4.929 milliliter	≈	1 teaspoon
0.454 kilogram	≈	1 pound
1.609 kilometers per hour	≈	1 miles per hour

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Grade 8

Shape	Formulas
Cone	$V = \frac{1}{3}\pi r^2 h$
Cylinder	$V = \pi r^2 h$
Sphere	$V = \frac{4}{3}\pi r^3$

Pythagorean Theorem

$$a^2 + b^2 = c^2$$