Grade 7 FAST Mathematics Reference Sheet

Conversions within a System of Measure

Customary Conversions	Metric Conversions	Time Conversions
	1 meter = 100 centimeters	1 minute = 60 seconds
1 foot = 12 inches	1 meter = 1000 millimeters	1 hour = 60 minutes
1 yard = 3 feet	1 kilometer = 1000 meters	1 day = 24 hours
1 mile = 5,280 feet		1 week = 7 days
1 mile = 1,760 yards	1 liter = 1000 milliliters	1 year = 365 days
1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts	1 gram = 1000 milligrams 1 kilogram = 1000 grams	1 year = 52 weeks

Conversions between Systems of Measure

Customary to Metric Conversion Approximations

- 1 inch = 2.54 centimeters 1 foot = 0.305 meters
- 1 mile = 1.61 kilometers
- 1 cup = 0.24 liters

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

- 1 gallon = 3.785 liters
- 1 ounce = 28.35 grams
- 1 pound = 0.454 kilograms

Metric to Customary Conversion Approximations

- 1 centimeter = 0.39 inches
- 1 meter = 3.28 feet
- 1 kilometer = 0.62 miles
- 1 liter = 4.23 cups
- 1 liter = 0.264 gallons
- 1 gram = 0.0352 ounces
- 1 kilogram = 2.204 pounds

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Formulas

D		Кеу		
Parallelogram	A = bh	b = base	A = area	
Or Rhombus	A = lw	h = height	<i>C</i> = circumference	
		l = length	V = volume	
		w = width		
- · ·	. 1	r = radius		
Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$	d = diameter		
	-	B = area of base		
Circle	$C = 2\pi r$ or $C = \pi d$	Simple Interest Formula		
	$A = \pi r^2$			
		I = prt		
		where $I = interest, p = principal,$		
Right Circular		r = rate, t = time		
Cylinder $V = Bh$ or $V = \pi r^2 h$		7 10007		
		Percent Error Formula		
		$\frac{ Estimate - Actual }{Actual} \times 100$		
		Percent of Change		
		fin al malma initial malma		
		$\frac{final \ value - initial \ value}{100} \times 100$		
		initial va	lue	