



Massachusetts Comprehensive Assessment System Grade 6 Mathematics Reference Sheet

CONVERSIONS

$$1 \text{ cup} = 8 \text{ fluid ounces}$$

$$1 \text{ pint} = 2 \text{ cups}$$

$$1 \text{ quart} = 2 \text{ pints}$$

$$1 \text{ gallon} = 4 \text{ quarts}$$

$$1 \text{ gallon} \approx 3.785 \text{ liters}$$

$$1 \text{ liter} \approx 0.264 \text{ gallon}$$

$$1 \text{ liter} = 1000 \text{ cubic centimeters}$$

$$1 \text{ inch} = 2.54 \text{ centimeters}$$

$$1 \text{ meter} \approx 39.37 \text{ inches}$$

$$1 \text{ mile} = 5280 \text{ feet}$$

$$1 \text{ mile} = 1760 \text{ yards}$$

$$1 \text{ mile} \approx 1.609 \text{ kilometers}$$

$$1 \text{ kilometer} \approx 0.62 \text{ mile}$$

$$1 \text{ pound} = 16 \text{ ounces}$$

$$1 \text{ pound} \approx 0.454 \text{ kilogram}$$

$$1 \text{ kilogram} \approx 2.2 \text{ pounds}$$

$$1 \text{ ton} = 2000 \text{ pounds}$$

AREA (A) FORMULAS

$$\text{square} \dots\dots\dots A = s^2$$

$$\text{rectangle} \dots\dots\dots A = bh$$

OR

$$A = lw$$

$$\text{parallelogram} \dots\dots A = bh$$

$$\text{triangle} \dots\dots\dots A = \frac{1}{2}bh$$

(b = length of base; h = height)

$$\text{circle} \dots\dots\dots A = \pi r^2$$

(r = radius)

CIRCLE FORMULAS

$$\text{area} \dots\dots\dots A = \pi r^2$$

$$\text{circumference} \dots\dots C = 2\pi r$$

OR

$$C = \pi d$$

(d = diameter)

VOLUME (V) FORMULAS

$$\text{right rectangular prism} \dots\dots V = lwh$$

(l = length; w = width; h = height)

OR

$$V = Bh$$

(B = area of base; h = height)