## **Grade 8 FAST Mathematics Reference Sheet**

## **Conversions within a System of Measure**

# **Customary Conversions**

1 foot = 12 inches

1 yard = 3 feet

1 mile = 5,280 feet

1 mile = 1,760 yards

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 pound = 16 ounces

1 ton = 2,000 pounds

### **Metric Conversions**

1 meter = 100 centimeters

1 meter = 1000 millimeters

1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams

1 kilogram = 1000 grams

#### **Time Conversions**

1 minute = 60 seconds

1 hour = 60 minutes

1 day = 24 hours

1 week = 7 days

1 year = 365 days

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 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

### **Formula**

## **Slope Formula**

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

where m = slope

# **Grade 8 FAST Mathematics Reference Sheet**

## **Theorems**



