B.E.S.T. Algebra 1 EOC Mathematics Reference Sheet

Customary **Conversions**

1 foot = 12 inches

1 yard = 3 feet1 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 guarts

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 year = 365 days

1 year = 52 weeks

Formulas

Forms of Linear Equations	Forms of Quadratic Functions	Forms of Exponential Functions
y = mx + b $Ax + By = C$	$f(x) = ax^2 + bx + c$ $f(x) = a(x - h)^2 + k$	$f(x) = ab^x$
$y - y_1 = m(x - x_1)$	f(x) = a(x - p)(x - q)	$f(x) = a(1 \pm r)^x$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

where $ax^2 + bx + c = 0$ and $a \neq 0$

Final Amounts under Simple Interest	Final Amounts under Compound Interest
A = P(1 + rt)	$A = P\left(1 + \frac{r}{n}\right)^{nt}$
where P = principal, r = rate, and t = time	where P = principal, r = rate, n = number of times compounded, and t = time