

FSA Mathematics Reference Sheets Packet

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December 15, 2014

Grade 4 FSA Mathematics Reference Sheet

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 year = 365 days 1 year = 52 weeks

Formulas

A = /w

P = 2l + 2w

Grade 5 FSA Mathematics Reference Sheet

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

Grade 6 FSA Mathematics Reference Sheet

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 year = 365 days 1 year = 52 weeks

Formulas

$$A = bh$$

$$A = \frac{1}{2}h(b_1 + b_2)$$

$$A = lw$$

$$V = Bh$$

$$A = \frac{1}{2}bh$$

$$V = lwh$$

Grade 7 FSA Mathematics Reference Sheet

Customary Conversions	Formulas
1 foot = 12 inches 1 yard = 3 feet	A = bh
1 mile = $5,280$ feet 1 mile = $1,760$ yards	A = lw
1 cup = 8 fluid ounces 1 pint = 2 cups	$A = \frac{1}{2}bh$
1 quart = 2 pints 1 gallon = 4 quarts	$A = \frac{1}{2}h(b_1 + b_2)$
1 pound = 16 ounces	Z
1 ton = 2,000 pounds	V = Bh
Metric Conversions	$V = \frac{1}{Bh}$
1 meter = 100 centimeters	$V = \frac{1}{3}Bh$
	$V = \frac{1}{3}Bh$ $SA = Ph + 2B$
1 meter = 100 centimeters 1 meter = 1000 millimeters	SA = Ph + 2B
1 meter = 100 centimeters 1 meter = 1000 millimeters 1 kilometer = 1000 meters 1 liter = 1000 milliliters 1 gram = 1000 milligrams	5
1 meter = 100 centimeters 1 meter = 1000 millimeters 1 kilometer = 1000 meters 1 liter = 1000 milliliters 1 gram = 1000 milligrams 1 kilogram = 1000 grams	SA = Ph + 2B
1 meter = 100 centimeters 1 meter = 1000 millimeters 1 kilometer = 1000 meters 1 liter = 1000 milliliters 1 gram = 1000 milligrams	SA = Ph + 2B

Grade 8 FSA Mathematics Reference Sheet

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

Algebra 1 EOC FSA Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches1 yard = 3 feet1 mile = 5,280 feet1 mile = 1,760 yards1 cup = 8 fluid ounces1 pint = 2 cups1 quart = 2 pints1 gallon = 4 quarts1 pound = 16 ounces

1 ton = 2,000 pounds

Metric Conversions

1 meter = 100 centimeters 1 meter = 1000 millimeters1 kilometer = 1000 meters1 liter = 1000 milliliters

1 gram = 1000 milligrams 1 kilogram = 1000 grams

Time Conversions

1 minute = 60 seconds1 hour = 60 minutes1 day = 24 hours1 year = 365 days1 year = 52 weeks

Geometry EOC FSA Mathematics Reference Sheet

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

Geometry EOC FSA Mathematics Reference Sheet

Formulas

$$\sin A^{\circ} = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos A^{\circ} = \frac{\text{adjacent}}{\text{hypotenuse}}$$

 $\tan A^{o} = \frac{opposite}{adjacent}$

$$V = Bh$$

 $V = \frac{1}{3}Bh$

$$V = \frac{4}{3}\pi r^3$$

y = mx + b, where m = slope and b = y-intercept

 $y - y_1 = m(x - x_1)$, where m = slope and (x_1, y_1) is a point on the line

Algebra 2 EOC FSA Mathematics Reference Sheet

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 top = 2 000 pounds

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

Algebra 2 EOC FSA Mathematics Reference Sheet

Formulas

 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$, where *a*, *b*, and *c* are coefficients in an equation of the form $ax^2 + bx^2 + c = 0$ $\log_b a = \frac{\log a}{\log b}$ $sin A^{\circ} = \frac{opposite}{hypotenuse}$ $\cos A^{\circ} = \frac{\text{adjacent}}{\text{hypotenuse}}$ $\tan A^{\circ} = \frac{\text{opposite}}{\text{adjacent}}$ $P(B|A) = \frac{P(A \text{ and } B)}{P(A)}$ P(A or B) = P(A) + P(B) - P(A and B) $z = \frac{(x - \mu)}{\sigma}$, where μ = mean and σ = standard deviation

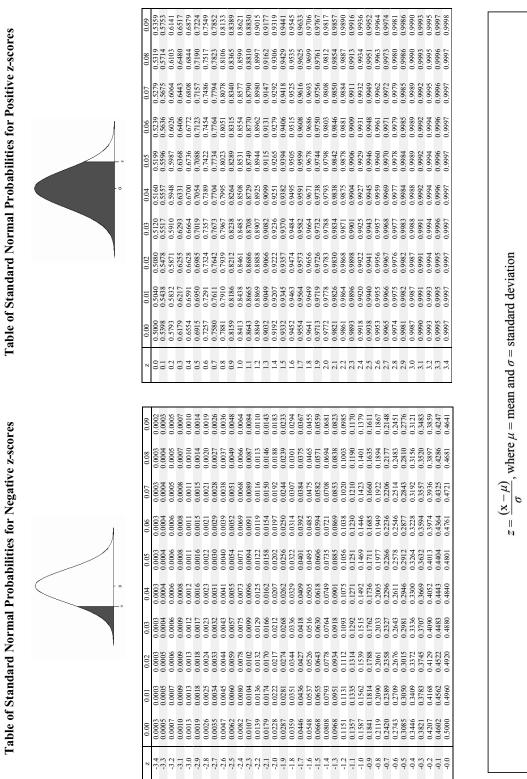


Table of Standard Normal Probabilities for Positive z-scores