

TCAP Math Reference Sheet—Grade 5

Districts may print and provide copies of this Grade 5 Reference Sheet during online administration of the Grade 5 TCAP math assessment.

Conversions

Distance	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet 1 mile = 1,760 yards 1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters
Weight/ Mass	1 pound = 16 ounces 1 ton = 2,000 pounds 1 gram = 1,000 milligrams 1 kilogram = 1,000 grams

Volume	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1,000 milliliters
Time	1 minute = 60 seconds 1 hour = 60 minutes 1 hour = 3,600 seconds

TCAP Math Reference Sheet—Grade 6

Districts may print and provide copies of this Grade 6 Reference Sheet during online administration of the Grade 6 TCAP math assessment.

Conversions

Distance	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet 1 mile = 1,760 yards 1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters
Weight/ Mass	1 pound = 16 ounces 1 ton = 2,000 pounds 1 gram = 1,000 milligrams 1 kilogram = 1,000 grams

Volume	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1,000 milliliters
Time	1 minute = 60 seconds 1 hour = 60 minutes 1 hour = 3,600 seconds

Formulas

Area (A)

Name of Figure	Formula	Definitions of Variables
Triangle	$A = \frac{1}{2}bh$	<i>b</i> = base <i>h</i> = height

TCAP Math Reference Sheet—Grade 7

Districts may print and provide copies of this Grade 7 Reference Sheet during online administration of the Grade 7 TCAP math assessment.

Conversions

Distance	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet 1 mile = 1,760 yards 1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters	Volume	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1,000 milliliters
Weight/ Mass	1 pound = 16 ounces 1 ton = 2,000 pounds 1 gram = 1,000 milligrams 1 kilogram = 1,000 grams	Time	1 minute = 60 seconds 1 hour = 60 minutes 1 hour = 3,600 seconds

Formulas

Area (*A*)

Name of Figure	Formula	Definitions of Variables
Parallelogram	$A = bh$	<i>b</i> = base <i>h</i> = height
Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$	<i>b</i> ₁ = first base <i>b</i> ₂ = second base <i>h</i> = height
Triangle	$A = \frac{1}{2}bh$	<i>b</i> = base <i>h</i> = height

Volume (V) and Surface Area (SA)

Name of Figure	Formula	Definitions of Variables
Cube	$V = s^3$ $SA = 6s^2$	$s = \text{side}$
Rectangular Prism	$SA = 2(lw + hl + hw)$	$h = \text{height}$ $l = \text{length}$ $w = \text{width}$

TCAP Math Reference Sheet—Grade 8

Districts may print and provide copies of this Grade 8 Reference Sheet during online administration of the Grade 8 TCAP math assessment.

Conversions

Distance	1 foot = 12 inches 1 yard = 3 feet 1 mile = 5,280 feet 1 mile = 1,760 yards 1 centimeter = 10 millimeters 1 meter = 100 centimeters 1 kilometer = 1,000 meters	Volume	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1,000 milliliters
Weight/ Mass	1 pound = 16 ounces 1 ton = 2,000 pounds 1 gram = 1,000 milligrams 1 kilogram = 1,000 grams	Time	1 minute = 60 seconds 1 hour = 60 minutes 1 hour = 3,600 seconds

Formulas

Area (A)

Name of Figure	Formula	Definitions of Variables
Parallelogram	$A = bh$	b = base h = height
Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$	b_1 = first base b_2 = second base h = height
Triangle	$A = \frac{1}{2}bh$	b = base h = height

Volume (V)

Name of Figure	Formula	Definitions of Variables
Cone	$V = \frac{1}{3}\pi r^2 h$	h = height r = radius
Cylinder	$V = \pi r^2 h$	h = height r = radius
Right Prism	$V = Bh$	B = area of base h = height
Sphere	$V = \frac{4}{3}\pi r^3$	r = radius