TCAP 2019-2020

Grade 5 Mathematics Reference Sheet

The math assessment will allow reference sheets for all students in **grades five through high school.**
The reference sheets are designed to match the intent of our current state standards in math. The language of the standards in grades 3 and 4 does not necessitate a reference sheet.

TCAP Math Reference Sheet—Grade 5
1 yard = 3 feet 1 mile = 1760 yards
1 mile = 5280 feet 1 kilometer = 1000 meters
1 pound = 16 ounces 1 ton = 2000 pounds 1 kilogram = 1000 grams
1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter = 1000 milliliters

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Grades 6–8 Mathematics Reference Sheets

The math assessment will allow reference sheets for all students in **grades five through high school.** The reference sheets are designed to match the intent of our current state standards in math. Below are the math reference sheets for grades 6–8.

TCAP Math Reference Sheet—Grade 6	
1 yard=3 feet 1 mile = 1760 yards 1 mile = 5280 feet 1 kilometer=1000 m 1 pound = 16 ounces 1 ton = 2000 pounds 1 kilogram = 1000 grams	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter=1000 milliliters

TCAP Math Reference Sheet—Grade 7	
1 yard=3 feet 1 mile = 1,760 yards 1 mile = 5,280 feet 1 kilometer=1000 m 1 pound = 16 ounces 1 ton = 2000 pounds 1 kilogram=1000 grams	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter=1000 milliliters Area of a Regular Polygon=$\frac{1}{2}ap$ where a is the apothem length and p is perimeter

TCAP Math Reference Sheet—Grade 8	
1 yard=3 feet 1 mile = 1,760 yards 1 mile = 5,280 feet 1 kilometer=1000 m 1 pound = 16 ounces 1 ton = 2000 pounds 1 kilogram=1000 grams	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 liter=1000 milliliters Area of a Regular Polygon=$\frac{1}{2}ap$ where a is the apothem length and p is perimeter

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High School Mathematics Reference Sheet

The math assessment will allow reference sheets for all students in **grades five through high school.** The reference sheets are designed to match the intent of our current state standards in math. Below is the math reference sheet for high school.

TCAP Math Reference Sheet—High School	
1 inch = 2.54 centimeters 1 mile = 5280 feet 1 mile = 1760 yards 1 mile = 1.609 kilometers 1 kilometer = 0.62 mile 1 meter = 39.37 inches 1 pound = 16 ounces 1 pound = 0.454 kilograms 1 kilogram = 2.2 pounds 1 ton = 2000 pounds 1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 gallon = 4 quarts 1 gallon = 3.785 liters 1 liter = 0.264 gallons 1 liter = 1000 cubic centimeters	Exponential Growth: $y = a(1 + r)^t$ Exponential Decay: $y = a(1 - r)^t$ Compound Interest: $A = P(1 + \frac{r}{n})^{nt}$ Continually Compounding Interest: $A = Pe^{rt}$ Arithmetic Sequence: $a_n = a_1 + (n-1)d$ Geometric Sequence: $a_n = a_1(r)^{n-1}$ Finite Geometric Series: $S_n = \frac{a_1(1-r^n)}{1-r}$ Degrees: 1 degree = $\frac{\pi}{180}$ radians Radians: 1 radian = $\frac{180}{\pi}$ degrees