Definitions and Formulas for Core Academic Skills Assessment—Mathematics

Definitions

>	is greater than	riangle ABC	triangle ABC		set A union set B
<	is less than	Ă₿	line AB		set A intersect set B
π	\approx 3.14	AB	line AB	Ø	empty set
Z	angle	ĀB	line segment AB		
m∠A	the measure of angle A	AB	the length of line segment AB		

Conversions for Units of Measurement

	U.S. Standard	Metric	Time
Distance	12 inches = 1 foot 3 feet = 1 yard 5280 feet = 1 mile 1 inch = 2.	1 kilometer = 1000 meters 1 meter = 100 centimeters 1 centimeter = 10 millimeters 54 centimeters	1 minute = 60 seconds 1 hour = 60 minutes 1 day = 24 hours
Volume (liquid)	1 gallon = 4 quarts 1 quart = 32 ounces 1 quart =	1 liter = 1000 milliliters 1 cubic centimeter = 1 milliliter \approx 0.95 liters	
Mass	1 pound = 16 ounces 1 ton = 2000 pounds 2.2 pounds	1 gram = 1000 milligrams 1 kilogram = 1000 grams s ≈ 1 kilogram	

Formulas

Note: Not all formulas necessary are listed, nor are all formulas listed used on this test.

Simple interest	$I = P \times r \times t$
Compound interest	$A = P(1+r)^t$
Midpoint	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$
Distance	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Pythagorean theorem	$c^2 = a^2 + b^2$
nPr	$\frac{n!}{(n-r)!}$
_n C _r	$\frac{n!}{(n-r)!r!}$

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