STAAR Grade 8 Mathematics Formulas

All Mathematics Formulas a STAAR Grade 8 Math Test Taker Must Know!



Created by: Effortless Math Education

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Preparing for the STAAR Grade 8 Mathematics test?

First and foremost, you should understand that the STAAR Grade 8 Mathematics test contains a formula sheet, which displays formulas relating to geometric measurement and certain algebra concepts. Formulas are provided to test-takers so that they may focus on *application*, rather than the *memorization*, of formulas. However, the test does not provide a list of all formulas that will be required to know for the test. This means that you will need to be able to recall many math formulas on the STAAR Grade 8 Mathematics test.

Below you will find the 2019 STAAR Grade 8 Mathematics Formula Sheet followed by a complete list of all Math formulas you MUST have learned before test day, as well as some explanations for how to use them and what they mean. Keep this list around for a quick reminder when you forget one of the formulas.

Review them all, then take a look at the math topics to begin applying them!

Good luck!

STAAR Grade 8 Mathematics Formula Sheet

LINEAR EQUATIONS	
Slope – intercept form	$y = mx + b$
Direct Variation	$y = kx$
Slope of a Line	$m = \frac{y_2 - y_1}{x_2 - x_1}$

CIRCUMFERENCE	
Circle	$C = 2\pi r$ or $C = \pi d$

AREA	
Triangle	$A = \frac{1}{2}bh$
Parallelogram	$A = bh$
Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
Circle	$A = \pi r^2$

SURFACE AREA		
	Lateral	Total
Prism	$S = Ph$	$S = Ph + 2B$
Cylinder	$S = 2\pi rh$	$S = 2\pi rh + 2\pi r^2$

VOLUME	
Prism or Cylinder	$V = Bh$
Pyramid or Cone	$V = \frac{1}{3}Bh$
Sphere	$V = \frac{4}{3}\pi r^3$

ADDITIONAL INFORMATION	
Pythagorean theorem	$a^2 + b^2 = c^2$
Simple interest	$I = prt$
Compound Interest	$A = p(1 + r)^t$