Pre-Algebra (Math 8) Summer Enrichment and Skill Review Activities

These activities and websites will help your child to prepare for the upcoming school year. Also, your child will have access to the Pre-Algebra digital learning modules on Google Classroom during the summer as review.

Name	Description
NCTM Illuminations	NCTM Illuminations was developed by the National Council of Teachers of Mathematics. It encourages K-12 students to explore, learn, and apply math concepts to their learning.
Figure This!	Figure This! provides activities and mathematical challenges for middle-school students. Tips for parents are located in the Family Corner section of the website.
eMediaVA	This website offers a variety of instructional videos and interactive activities. Number and Number Sense (Math 8) Computation and Estimation (Math 8) Measurement and Geometry (Math 8) Probability and Statistics (Math 8) Patterns, Functions, and Algebra (Math 8)
Legends of Learning	Legends of Learning is a program with an array of math and science activities for students in grades 1-8. Students can access these activities by logging into Awakening.
One Grain of Rice Written by: Demi	The One Grain of Rice is a folktale about a girl who uses math to outsmart a villian. You can check out this book at your local library or watch the read aloud online. One Grain of Rice-Read Aloud
IXL	IXL offers skill practice across all content areas. To review Pre-Algebra (Math 8) skills on IXL, please refer to the following pages for a list of math skills and its corresponding SOLs. IXL Desmos Calculator (if needed)

- NCTM Illuminations, Figure This!, and eMediaVA resource information was provided by the Virginia Department of Education.

Pre-Algebra (Math 8) IXL Math Skills

Directions: For review, complete the practice questions as needed. (The IXL units listed on the chart are Grade 8 unless otherwise noted).

SOL #/CONTENT	IXL UNITS TO PRACTICE
8.1 Compare & Order Rational Numbers	D.7, D.8, J.1 and J.2
8.2 Real Number System	A.9 and D.5
8.3 Squares and Square Roots	F.15, F.16 and F.17
8.4 Consumer Math Applications	J.10 and J.11
8.5 Angle relationships	O.13 and O.14
8.6 Volume & Surface Area (nothing on square based pyramids)	T.9, T.11, T.13 and under the geometry tab: T.3 and T.5.
8.7 Transformations	P.6, P.7, P.8 and P.9; and Q.2, Q.3 and Q.4
8.8 3-D Models	S.3
8.9 Pythagorean Theorem	R.1, R.2, R.4 and R.5
8.10 Composite Figures	Grade 8 tab: T.4; Grade 7 tab: AA.17; Grade 6 tab: FF.6, FF.7 & FF.24; and Grade 5 tab: EE.9 and EE.10
8.11 Probability	EE.1, EE.5, EE.7 and EE.8
8.12 Box plots	CC.14, DD.5

8.13 Scatterplots	CC.15 and CC.16
8.14 Simplifying & Evaluating expressions	C.4, E.2, V.5, V.6, V.9, V.13, V.15, and V.16
8.15 Relations & functions	Z.1, Z.2, Z.3, Z.7, Z.8, Z.9, Z.10, Z.11, Z.12 and under the Algebra tab – Q.5
8.16 Slope	Y.1, Y.4, Y.6 and Y.7 and under the Algebra tab: S.3, S.6 and S.7
8.17 Multi-step equations	W.7, W.8, W.9, W.10, W.11, W.12, W.13 and W.14
8.18 Inequalities	X.1, X.2, X.3, X.5, X.6, X.7, X.8 and X.9