**Course: SAT ACT Prep**

**Subject: Mathematical Reasoning**

**Topic: Arithmetic**

**Subtopic: Rules of Exponents**

**Document: Quick Drill A Resource**

**Lesson Number: 1**

**Reference Number: 1000-7**

*https://youtube.com/c/MrMattTheTutor*



1. What is the value of $\frac{\left(\left(A^{3}\right)\left(A^{2}\right)\right)^{3}}{\left(\left(A^{4}\right)\left(A^{3}\right)\right)^{2}}$ ?
	1. $A^{1}$
	2. $A^{2}$
	3. $A^{3}$
	4. $A^{4}$
2. What is the value of $\frac{\left(\left(A^{-6}\right)\left(A^{2}\right)\right)^{3}}{\left(\left(A^{-5}\right)\left(A^{3}\right)\right)^{2}}$ ?
	1. $A^{-2}$
	2. $A^{-4}$
	3. $A^{-6}$
	4. $A^{-8}$
3. What is the value of $\frac{\left(\left(A^{8}\right)\left(A^{3}\right)\right)^{-5}}{\left(\left(\frac{A^{3}}{A^{9}}\right)\right)^{10}}$ ?
	1. $A^{5}$
	2. $A^{10}$
	3. $A^{15}$
	4. $A^{20}$
4. What is the value of $\frac{\left(\left(A^{5}\right)\left(B^{6}\right)\left(C^{4}\right)\right)^{2}}{\left(\left(A^{5}\right)\left(B^{3}\right)\right)^{4}}×\frac{\left(\left(A^{2}\right)\left(B^{4}\right)\left(C^{4}\right)\right)^{3}}{\left(\left(A^{2}\right)\left(B^{3}\right)\left(C^{5}\right)\right)^{2}}$ ?
	1. $\frac{\left(B^{6}\right)\left(C^{10}\right)}{\left(A^{8}\right)}$
	2. $\frac{\left(A^{8}\right)}{\left(B^{6}\right)\left(C^{10}\right)}$
	3. $\frac{\left(B^{3}\right)\left(C^{5}\right)}{\left(A^{4}\right)}$
	4. $\frac{\left(A^{4}\right)}{\left(B^{3}\right)\left(C^{5}\right)}$
5. What is the value of $\frac{\left(\left(A^{8}\right)\left(B^{3}\right)\left(C^{5}\right)\right)^{2}}{\left(\left(A^{8}\right)\left(B^{3}\right)\right)^{5}}×\frac{\left(\left(A^{2}\right)\left(B^{5}\right)\left(C^{5}\right)\right)^{3}}{\left(\left(A^{2}\right)\left(B^{3}\right)\left(C^{8}\right)\right)^{2}}$?
	1. $\frac{\left(C^{9}\right)}{\left(A^{22}\right)}$
	2. $\frac{\left(A^{22}\right)}{\left(C^{9}\right)}$
	3. $\frac{\left(C^{5}\right)}{\left(A^{4}\right)}$
	4. $\frac{\left(A^{4}\right)}{\left(C^{5}\right)}$
6. What is the value of $\frac{\left(\left(A^{2}\right)\left(B^{6}\right)\left(C^{7}\right)\right)^{2}}{\left(\left(A^{2}\right)\left(B^{4}\right)\right)^{7}}×\frac{\left(\left(A^{2}\right)\left(B^{7}\right)\left(C^{7}\right)\right)^{4}}{\left(\left(A^{2}\right)\left(B^{4}\right)\left(C^{2}\right)\right)^{2}}$?
	1. $\frac{\left(B^{6}\right)\left(C^{10}\right)}{\left(A^{8}\right)}$
	2. $\frac{\left(A^{8}\right)}{\left(B^{6}\right)\left(C^{10}\right)}$
	3. $\frac{\left(C^{38}\right)}{\left(A^{6}\right)\left(B^{4}\right)}$
	4. $\frac{\left(B^{4}\right)\left(C^{38}\right)}{\left(A^{6}\right)}$