**Course: SAT ACT Prep**

**Subject: Mathematical Reasoning**

**Topic: Arithmetic**

**Subtopic: Operations with Radicals**

**Document: Quick Drill B Resource**

**Lesson Number: 4**

**Reference Number: 1004-8**

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



1. What is the value of the expression$ \left(2\left(3\sqrt{2}\right)+3\left(5\sqrt{2}\right)\right)\left(4\sqrt{12}\right)$?
	1. $84\sqrt{2}$
	2. $168\sqrt{2}$
	3. $168\sqrt{3}$
	4. $168\sqrt{6}$
2. What is the value of the expression$ \left(5\left(4\sqrt{3}\right)-3\left(2\sqrt{3}\right)\right)\left(2\sqrt{5}\right)$?
	1. $28\sqrt{15}$
	2. $38\sqrt{15}$
	3. $58\sqrt{15}$
	4. $68\sqrt{15}$
3. What is the value of the expression$ \left(8\left(3\sqrt{5}\right)-2\left(4\sqrt{5}\right)\right)\left(3\sqrt{8}\right)$?
	1. $42\sqrt{10}$
	2. $56\sqrt{10}$
	3. $96\sqrt{10}$
	4. $108\sqrt{10}$
4. What is the value of the expression $(-\sqrt{3}(3\sqrt{2})^{2})^{2}$ ?



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