

Course: SAT ACT Prep

Lesson Number: 4

Subject: Mathematical Reasoning

Reference Number: 1004-8

Topic: Arithmetic

Subtopic: Operations with Radicals

<https://youtube.com/c/MrMattTheTutor>

Document: Quick Drill B Resource



1) What is the value of the expression $(2(3\sqrt{2}) + 3(5\sqrt{2}))(4\sqrt{12})$?

a) $84\sqrt{2}$

b) $168\sqrt{2}$

c) $168\sqrt{3}$

d) $168\sqrt{6}$

2) What is the value of the expression $(5(4\sqrt{3}) - 3(2\sqrt{3}))(2\sqrt{5})$?

a) $28\sqrt{15}$

b) $38\sqrt{15}$

c) $58\sqrt{15}$

d) $68\sqrt{15}$

3) What is the value of the expression $(8(3\sqrt{5}) - 2(4\sqrt{5}))(3\sqrt{8})$?

a) $42\sqrt{10}$

b) $56\sqrt{10}$

c) $96\sqrt{10}$

d) $108\sqrt{10}$

4) What is the value of the expression $(-\sqrt{3}(3\sqrt{2})^2)^2$?

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<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	0	0	0
①	①	①	①
②	②	②	②
③	③	③	③
④	④	④	④
⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨

5) What is the value of the expression $(-\sqrt{5}(2\sqrt{3})^2)^2$?

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①	①	①	①
②	②	②	②
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⑤	⑤	⑤	⑤
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⑦	⑦	⑦	⑦
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⑨	⑨	⑨	⑨

6) What is the value of the expression $(-\sqrt{2}(3\sqrt{5})^2)^2$?

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	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9