



Simplify numerical expressions involving exponents and roots

- 1 What does this radical expression simplify to?

$$\frac{\sqrt[3]{27^2}}{27}$$

A $\frac{1}{5}$	B $\frac{1}{3}$	C $\frac{17}{43}$
D $\frac{1}{55}$	E $\frac{1}{6}$	

- 2 What integer does this radical expression simplify to?

$$\frac{\sqrt{216^2}}{9}$$

A 24	B 30	C 8
D 34	E 16	F 12

- 3 Simplify the radical.

$$3\sqrt{18-2}$$

A 13	B 12
C $14\sqrt{2}$	D 8
E 9	

- 4 What integer does this radical expression simplify to?

$$\frac{16}{\sqrt{4^4}}$$

A 4	B 2	C 6
D 9	E 10	F 1

- 5 What does this radical expression simplify to?

$$\frac{\sqrt[3]{25^3}}{27}$$

A $\frac{12}{23}$	B $\frac{9}{2}$	C $\frac{25}{27}$
D $\frac{35}{13}$	E $\frac{13}{6}$	

- 6 What integer does this radical expression simplify to?

$$\frac{\sqrt{9^4}}{81}$$

A 2	B 1	C 3
D 4	E 8	F 7

- 7 Simplify the radical.

$$2\sqrt{18-2}$$

A $8\sqrt{4}$	B 9	C 10
D 6	E 8	

- 8 What integer does this radical expression simplify to?

$$\frac{16}{\sqrt[3]{16^3}}$$

A 1	B 10	C 7
D 6	E 2	F 5



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What does this radical expression simplify to?

$$\frac{\sqrt[3]{36^3}}{16}$$

A $\frac{47}{18}$	B $\frac{34}{23}$	C $\frac{2}{3}$
D $\frac{51}{31}$	E $\frac{9}{4}$	

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What integer does this radical expression simplify to?

$$\frac{\sqrt[3]{16^3}}{8}$$

A 1	B 11	C 8
D 4	E 2	F 7

11

Simplify the radical.

$$3\sqrt{9+7}$$

A 10	B 9
C 12	D 15
E $15\sqrt{4}$	

12

What integer does this radical expression simplify to?

$$\frac{64}{\sqrt[3]{8^5}}$$

A 8	B 2	C 3
D 10	E 7	F 5