



Simplify radicals containing perfect-square factors

1 Simplify the radical

$$\sqrt{25}$$

A	B	C
3	$7\sqrt{4}$	5
D	E	
4	2	

2 Simplify the radical

$$\sqrt{2^2 \cdot 2^2}$$

A	B	C
5	$5\sqrt{2}$	4
D	E	
$\sqrt{2}$	7	

3 Simplify the radical

$$\sqrt{2 \cdot 2 \cdot 2 \cdot 2}$$

A	B	C
1	$4\sqrt{3}$	5
D	E	
4	2	

4 Simplify the radical

$$\sqrt{2^2 \cdot 2}$$

A	B
$2\sqrt{2}$	$4\sqrt{3}$
C	D
4	1

5 Simplify the radical

$$\sqrt{2 \cdot 3 \cdot 3}$$

A	B	C
1	2	6
D	E	
4	$3\sqrt{2}$	

6 Simplify the radical

$$\sqrt{12}$$

A	B	C
$\sqrt{6}$	$\sqrt{3}$	$\sqrt{5}$
D	E	
5	$2\sqrt{3}$	

7 Simplify the radical

$$\sqrt{50}$$

A	B	C
3	$\sqrt{4}$	6
D	E	
$5\sqrt{2}$	$\sqrt{2}$	

8 Simplify the radical

$$\sqrt{44}$$

A	B
$2\sqrt{11}$	$4\sqrt{12}$
C	D
$\sqrt{8}$	$\sqrt{11}$



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9 Simplify the radical

$$\sqrt{8}$$

A

$$\sqrt{4}$$

B

$$3$$

C

$$1$$

D

$$2\sqrt{2}$$

10 Simplify the radical

$$\sqrt{175}$$

A

$$4\sqrt{5}$$

B

$$6\sqrt{9}$$

C

$$\sqrt{6}$$

D

$$5\sqrt{7}$$

E

$$7\sqrt{9}$$

11 Simplify the radical

$$\sqrt{20}$$

A

$$2\sqrt{5}$$

B

$$\sqrt{3}$$

C

$$\sqrt{8}$$

D

$$\sqrt{5}$$

E

$$5$$

12 Simplify the radical

$$\sqrt{32}$$

A

$$7\sqrt{2}$$

B

$$4\sqrt{2}$$

C

$$3\sqrt{2}$$

D

$$2\sqrt{3}$$

E

$$6\sqrt{4}$$