



Radicals - Division Intro

- 1** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{8}}{\sqrt{2}}$$

A $\frac{5}{2}$	B 1
C 4	D 2

- 2** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{44}}{\sqrt{99}}$$

A $\frac{\sqrt{3}}{9}$	B 1
C 4	D $\frac{2}{3}$

- 3** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{11}}{\sqrt{99z}}$$

A $\frac{\sqrt{z}}{3z}$	B $\frac{\sqrt{z}}{3}$	C $\frac{\sqrt{3}}{9}$
D $\frac{2\sqrt{z}}{3}$	E $\frac{\sqrt{3}}{9z}$	

- 4** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{20}}{\sqrt{175}}$$

A $\sqrt{35}$	B $2\sqrt{35}$
C $\frac{2\sqrt{35}}{35}$	D 2
E $\frac{\sqrt{35}}{35}$	

- 5** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{125t}}{\sqrt{20t}}$$

A $\frac{\sqrt{3}}{6}$	B $\frac{5}{2}$	C 1
D 4	E $\frac{5\sqrt{2}}{4}$	

- 6** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{7} + 4}{\sqrt{5}}$$

A $\frac{\sqrt{105} + 2\sqrt{15}}{15}$
B $\frac{\sqrt{35} - 4\sqrt{5}}{5}$
C $\frac{\sqrt{35} + 4\sqrt{5}}{5}$
D $\sqrt{35} + \sqrt{5}$

- 7** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{208p^2t}}{\sqrt{18p}}$$

A $2\sqrt{26p}$	B $\frac{2p\sqrt{26pt}}{3}$
C $\frac{2\sqrt{26pt}}{3}$	D $2t\sqrt{26pt}$

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- 8** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{13} - \sqrt{11}}{\sqrt{11}}$$

A $\frac{\sqrt{143} + 1}{11}$

B $\frac{2\sqrt{143} + 11}{5}$

C $\frac{\sqrt{143} - 11}{11}$

D $\frac{\sqrt{143} - 1}{22}$

E $\frac{\sqrt{143} - 1}{2}$

- 9** Divide the radical expressions and simplify the answer

$$\frac{r\sqrt{2r} - 3\sqrt{r}}{r\sqrt{5r}}$$

A $\frac{2r\sqrt{10} + 3\sqrt{5}}{5r^3}$

B $\frac{r\sqrt{10} - 3\sqrt{5}}{5r}$

C $\frac{r\sqrt{10} - 3\sqrt{5}}{5r^{-1}}$

D $\frac{r\sqrt{30} + \sqrt{15}}{15r}$

E $\frac{r\sqrt{10} - \sqrt{5}}{r}$

- 10** Divide the radical expressions and simplify the answer

$$\frac{\sqrt{5p} + \sqrt{7}}{\sqrt{5p}}$$

A $\frac{5p - \sqrt{35p}}{p}$

B $\frac{5p + \sqrt{35p}}{5p}$

C $\frac{5p + 3\sqrt{35p}}{3p}$

D $\frac{p - \sqrt{35p}}{5}$

E $\frac{5p + p\sqrt{35p}}{5}$

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11 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{2} - 5\sqrt{3}}{\sqrt{5}}$$

A $\frac{\sqrt{10} - 5\sqrt{15}}{10}$

B $\frac{\sqrt{10} - 5\sqrt{15}}{5}$

C $\frac{\sqrt{10} - 5}{3}$

D $5\sqrt{10} - 5\sqrt{15}$

E $\sqrt{10} + \sqrt{15}$

12 Divide the radical expressions and simplify the answer

$$\frac{\sqrt{5} + 2\sqrt{3}}{5\sqrt{11}}$$

A $\sqrt{55} - 2\sqrt{33}$

B $\frac{\sqrt{55} + 2\sqrt{33}}{55}$

C $1 + 2\sqrt{33}$

D $\frac{\sqrt{2} + 2\sqrt{66}}{110}$

E $\frac{3\sqrt{55} - 2\sqrt{33}}{55}$

13 Divide the radical expressions and simplify the answer

$$\frac{4\sqrt{5} - \sqrt{3bx}}{bx\sqrt{11bx}}$$

A $\frac{\sqrt{55bx} - bx\sqrt{33}}{11b^2x}$

B $\frac{4\sqrt{55bx} + bx\sqrt{33}}{11b^4x^2}$

C $\frac{4\sqrt{55bx} - bx\sqrt{33}}{11b^2x^2}$

D $\frac{4\sqrt{55b} + b\sqrt{33}}{11bx}$

E $\frac{4\sqrt{bx} - bx\sqrt{33}}{11b^2x^4}$

14 Divide the radical expressions and simplify the answer

$$\frac{3y\sqrt{13y} - y^2\sqrt{13}}{2y\sqrt{7m}}$$

A $\frac{4\sqrt{91my} + y\sqrt{91m}}{m}$

B $\frac{3\sqrt{91my} + y\sqrt{91}}{m}$

C $\frac{3\sqrt{91my} - y\sqrt{91m^{-1}}}{m}$

D $\frac{3\sqrt{91my} - y\sqrt{91m}}{14m}$

E $\frac{3\sqrt{91my} + ym\sqrt{91}}{m}$