



Math worksheet on '*Radicals - Divide Binomials (Values Only) (Level 1)*'. Part of a broader unit on '*Radicals - Division Intro*'

Learn online: app.mobius.academy/math/units/radicals_division_intro/

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

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

a	b
$5\sqrt{3} + 15 + \sqrt{15} + 3\sqrt{5}$ -6	$5\sqrt{3} + 1 - \sqrt{15} + \sqrt{5}$ -6
c	d
$5\sqrt{3} - 1 + 3\sqrt{15} + 3\sqrt{5}$ 3	$5\sqrt{3} + 2 + \sqrt{15} + 3\sqrt{5}$ -6
e	f
$\sqrt{3} + 15 + \sqrt{15} - 3\sqrt{5}$ -6\sqrt{3}	$5\sqrt{3} + 15 + \sqrt{3} + \sqrt{5}$ -6\sqrt{3}

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

$$\frac{\sqrt{11} + 5}{\sqrt{13} - 3}$$

a	b
$2 + 3\sqrt{11} + 5\sqrt{13} + 15$	
c	d
$\sqrt{143} + \sqrt{11} - 5\sqrt{13} + 15\sqrt{2}$ 3	
e	f
$\sqrt{143} + 3\sqrt{11} + 5\sqrt{13} + 15$ 4	
g	h
$\sqrt{143} + 3\sqrt{11} - 5\sqrt{13} + 4$ 5	
i	j
$\sqrt{143} + 3\sqrt{11} + 1 - 15$ 2	
k	l
$\sqrt{143} + 3\sqrt{11} + \sqrt{13} + 15$	

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

$$\frac{2 + \sqrt{3}}{\sqrt{2} - 4}$$

a	b
$2\sqrt{2} + 8 + \sqrt{6} + 4\sqrt{3}$ -14	
c	d
$2\sqrt{2} - 8 + \sqrt{6} + \sqrt{3}$ 5	
e	f
$2\sqrt{2} + 8 - \sqrt{6} + \sqrt{3}$ 5	
g	h
$2 + 8 + \sqrt{6} + \sqrt{3}$ -14\sqrt{4}	
i	j
$2 + 8 + 3\sqrt{6} - 4\sqrt{3}$	
k	l
$2\sqrt{2} + 2\sqrt{4} + \sqrt{6} + 4\sqrt{3}$	

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

$$\frac{4 - \sqrt{3}}{3 + \sqrt{13}}$$

a	$12 + \sqrt{13} - 2\sqrt{3} + \sqrt{39}$ 5
b	$1 - 4\sqrt{13} - \sqrt{3} - \sqrt{39}$ 3
c	$12 - \sqrt{13} - 3\sqrt{3} + \sqrt{39}$ 4
d	$12 - 4\sqrt{13} - 3\sqrt{3} + \sqrt{39}$
e	$12 - 4\sqrt{13} - 3\sqrt{3} + \sqrt{39}$ -4
f	$1 - \sqrt{13} + 3\sqrt{3} - \sqrt{39}$ 4

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

$$\frac{2 - \sqrt{13}}{\sqrt{5} - 3}$$

a	$2\sqrt{5} + 1 - \sqrt{65} - \sqrt{13}$ -4
b	$2 - 6 - \sqrt{65} + 3\sqrt{13}$
c	$2\sqrt{5} - 6 + \sqrt{65} - 3\sqrt{13}$
d	$2\sqrt{5} + 6 - 4\sqrt{65} - 3\sqrt{13}$
e	$2\sqrt{5} + 1 - \sqrt{65} - \sqrt{13}$
f	$2\sqrt{5} + 6 - \sqrt{65} - 3\sqrt{13}$ -4

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

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

a	b
$3\sqrt{3} + 14$	$5\sqrt{3} + 1$ 3
c	d
$5\sqrt{3} + 1$	$5\sqrt{3} - 14$ -11
e	f
$5\sqrt{3} + 1$ 4	$5\sqrt{3} - 14$

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

$$\frac{2 + \sqrt{3}}{\sqrt{2} - 4}$$

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

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

a	b
$16 + \sqrt{5} - \sqrt{3} - \sqrt{15}$	
c	d
$1 + 3\sqrt{5} - 4\sqrt{3} + \sqrt{15}$ 2	
e	f
$16 + 4\sqrt{5} - 4\sqrt{3} - \sqrt{15}$ 11	
g	h
$3 + 4\sqrt{5} - 3\sqrt{3} - \sqrt{15}$	
i	j
$16\sqrt{2} + 4\sqrt{5} + \sqrt{3} - \sqrt{15}$	
k	l
$16 + 4\sqrt{5} - \sqrt{3} - 5\sqrt{15}$ 11\sqrt{2}	