



Math worksheet on 'Radicals - Divide Binomials by Monomials (Values Only) (Level 4)'. Part of a broader unit on 'Radicals - Division Intro'

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

<b>a</b> $\sqrt{91}$	<b>b</b> $\frac{\sqrt{91}}{13}$	<b>c</b> $\frac{1}{13}$
$\frac{3\sqrt{7} - \sqrt{7}}{2\sqrt{13}}$		
<b>d</b> <b>1</b>	<b>e</b> $\frac{1}{26}$	<b>f</b> $2\sqrt{91}$

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

<b>a</b> $\frac{\sqrt{77} + 4\sqrt{33}}{3}$	<b>b</b> $\sqrt{77} + 3\sqrt{33}$
<b>c</b> $\frac{\sqrt{77} + \sqrt{33}}{33}$	<b>d</b> $\sqrt{77} + \sqrt{33}$
$\frac{\sqrt{7} + 4\sqrt{3}}{3\sqrt{11}}$	
<b>e</b> $\frac{\sqrt{77} + 4\sqrt{33}}{33}$	<b>f</b> $1 + 4\sqrt{33}$

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

<b>a</b> $\frac{\sqrt{55} + 5\sqrt{35}}{10}$	<b>b</b> $\frac{\sqrt{55} + 3\sqrt{35}}{2}$
<b>c</b> $2\sqrt{55} + 5\sqrt{35}$	<b>d</b> $1 + 5\sqrt{35}$
$\frac{\sqrt{11} + 5\sqrt{7}}{2\sqrt{5}}$	
<b>e</b> $\sqrt{55} + 2\sqrt{35}$	<b>f</b> $\frac{1 - 5\sqrt{35}}{10}$

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

<b>a</b> $\sqrt{21} - 4\sqrt{33}$	<b>b</b> $\frac{\sqrt{42} - \sqrt{66}}{3}$
<b>c</b> $\frac{\sqrt{21} + 4\sqrt{33}}{3}$	<b>d</b> $\frac{\sqrt{2} - 4\sqrt{33}}{2}$
$\frac{\sqrt{7} - 4\sqrt{11}}{2\sqrt{3}}$	
<b>e</b> $\frac{\sqrt{21} - 4\sqrt{33}}{3}$	<b>f</b> $\frac{\sqrt{21} - 4\sqrt{33}}{6}$

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

<b>a</b> <b>5</b>	<b>b</b> $1 + \sqrt{6}$	<b>c</b> $\frac{1 + \sqrt{6}}{5}$
$\frac{\sqrt{2} + 2\sqrt{3}}{5\sqrt{2}}$		
<b>d</b> <b>2</b>	<b>e</b> $\frac{1 + \sqrt{6}}{2}$	<b>f</b> $\frac{1 + \sqrt{6}}{3}$

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

<b>a</b> $\frac{\sqrt{3}}{26}$	<b>b</b> $\frac{5\sqrt{91}}{4}$	<b>c</b> <b>3</b>
$\frac{2\sqrt{7} + \sqrt{7}}{2\sqrt{13}}$		
<b>d</b> $\frac{\sqrt{91}}{26}$	<b>e</b> $\frac{\sqrt{91}}{5}$	<b>f</b> $\frac{3\sqrt{91}}{26}$

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

<b>a</b> $\frac{\sqrt{91} - \sqrt{65}}{26}$	<b>b</b> $2\sqrt{91} + 1$
$\frac{2\sqrt{7} - \sqrt{5}}{2\sqrt{13}}$	
<b>c</b> $\frac{2\sqrt{91} - \sqrt{65}}{26}$	<b>d</b> $\frac{\sqrt{91} - \sqrt{65}}{52}$
<b>e</b> $\frac{\sqrt{91} + \sqrt{65}}{26}$	<b>f</b> $\frac{2 - \sqrt{65}}{2}$