



Math worksheet on 'Radicals - Multiplying Monomials with Binomials (Values Only) (Level 2)'.  
Part of a broader unit on 'Radicals - Multiplication Intro'

Learn online: [app.mobius.academy/math/units/radicals\\_multiplication\\_intro/](http://app.mobius.academy/math/units/radicals_multiplication_intro/)

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

$$\sqrt{11} \cdot (\sqrt{13} + \sqrt{5})$$

<b>a</b>	$\sqrt{143} + 1$	<b>b</b>	$2\sqrt{143} + \sqrt{55}$
<b>c</b>	$\sqrt{143} + 5\sqrt{55}$	<b>d</b>	$\sqrt{143} + \sqrt{55}$
<b>e</b>	$3\sqrt{143} + \sqrt{55}$		

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

$$(\sqrt{5} - \sqrt{7}) \cdot \sqrt{11}$$

<b>a</b>	$\sqrt{55} - \sqrt{77}$	<b>b</b>	$\sqrt{55} - 5\sqrt{77}$
<b>c</b>	$\sqrt{55} - 3\sqrt{77}$	<b>d</b>	$4\sqrt{55} - \sqrt{77}$

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

$$\sqrt{2} \cdot (\sqrt{11} - \sqrt{5})$$

<b>a</b>	$4\sqrt{22} - \sqrt{10}$	<b>b</b>	$\sqrt{22} - 3\sqrt{10}$
<b>c</b>	$\sqrt{22} - 4\sqrt{10}$	<b>d</b>	$\sqrt{22} - \sqrt{10}$

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

$$(\sqrt{11} - \sqrt{2}) \cdot \sqrt{5}$$

<b>a</b>	$\sqrt{55} - 4\sqrt{10}$	<b>b</b>	$\sqrt{55} - 1$
<b>c</b>	$\sqrt{55} - \sqrt{10}$	<b>d</b>	$1 - \sqrt{10}$

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

$$(\sqrt{3} + \sqrt{13}) \cdot \sqrt{11}$$

<b>a</b>	$\sqrt{33} + \sqrt{143}$	<b>b</b>	$\sqrt{33} + 1$
<b>c</b>	$5\sqrt{33} + \sqrt{143}$		

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

$$(\sqrt{7} + \sqrt{2}) \cdot \sqrt{3}$$

<b>a</b>	$\sqrt{21} + 1$	<b>b</b>	$1 + \sqrt{6}$
<b>c</b>	$\sqrt{21} + \sqrt{6}$		

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

$$(\sqrt{5} + \sqrt{13}) \cdot \sqrt{2}$$

<b>a</b>	$2 + \sqrt{26}$	<b>b</b>	$\sqrt{10} + \sqrt{2}$
<b>c</b>	$2\sqrt{10} + \sqrt{26}$	<b>d</b>	$\sqrt{10} + \sqrt{26}$