



Math worksheet on 'Algebraic Functions - Multiply Bracketed Terms, Different Variables (Level 2)'. Part of a broader unit on 'Algebra Manipulating Variables - Advanced'

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**2** Which answer is the same expression as this  $(m - 8)(b - 3)$

<b>a</b> $mb - 3b + 24m + 8$	<b>b</b> $8b - 3m - 24 - mb$
<b>c</b> $mb - 8b - 3m - 24$	<b>d</b> $mb + 24b - 3m + 8$
<b>e</b> $mb + 8b - 3m + 24$	<b>f</b> $mb + 8b + 3m - 24$

**1** Which answer is the same expression as this  $(z - 8)(y + 9)$

<b>a</b> $zy - 8y + 9z - 72$	<b>b</b> $zy + 8y - 9z - 72$
<b>c</b> $8y - 9z - 72 - zy$	<b>d</b> $zy - 8y - 9z + 72$
<b>e</b> $zy + 72y - 9z + 8$	<b>f</b> $zy - 9y + 72z + 8$

**3** Which answer is the same expression as this  $(m - 7)(z - 7)$

<b>a</b> $mz + 7z + 7m - 49$	<b>b</b> $mz + 49z - 7m + 7$
<b>c</b> $mz - 7z + 49m + 7$	<b>d</b> $7z - 7m - 49 - mz$
<b>e</b> $mz - 7z - 7m - 49$	<b>f</b> $mz + 7z - 7m + 49$

**4** Which answer is the same expression as this  $(r + 4)(b - 2)$

<b>a</b> $rb - 4b - 2r + 8$	<b>b</b> $rb - 2b + 8r + 4$
<b>c</b> $rb + 4b - 2r - 8$	<b>d</b> $4b - 2r - 8 - rb$
<b>e</b> $rb + 8b - 2r + 4$	<b>f</b> $rb - 4b + 2r - 8$

**5** Which answer is the same expression as this  $(p + 7)(b + 5)$

<b>a</b> $pb + 5b + 12p + 7$	<b>b</b> $pb + 12b + 5p + 7$
<b>c</b> $pb + 7b + 5p + 35$	<b>d</b> $pb + 35b + 5p + 7$
<b>e</b> $pb + 5b + 35p + 7$	<b>f</b> $7pb + 7b + 5p + 35$

**6** Which answer is the same expression as this  $(m + 7)(d - 7)$

<b>a</b> $md + 7d - 7m - 49$	<b>b</b> $md - 7d + 7m - 49$
<b>c</b> $md - 7d + 49m + 7$	<b>d</b> $md - 7d - 7m + 49$
<b>e</b> $md + 49d - 7m + 7$	<b>f</b> $7d - 7m - 49 - md$

**7** Which answer is the same expression as this  $(z + 9)(p - 3)$

<b>a</b> $zp + 9p - 3z - 27$	<b>b</b> $9p - 3z - 27 - zp$
<b>c</b> $zp - 9p + 3z - 27$	<b>d</b> $zp - 3p + 27z + 9$
<b>e</b> $zp + 27p - 3z + 9$	<b>f</b> $zp - 9p - 3z + 27$