



Math worksheet on 'Algebraic Functions - Multiply Bracketed Terms, Same Variable (Level 1)'. Part of a broader unit on 'Algebra Manipulating Variables - Intro'

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app.mobius.academy/math/units/algebra_manipulating_variables_intro/

1 Which answer is the same expression as this

$$(n + 3)(n + 2)$$

- | | | | |
|----------|----------------|----------|----------------|
| a | $n^2 - 6n + 5$ | b | $n^2 + 5n - 6$ |
| c | $n^2 + 5n + 6$ | d | $n^2 - 5n + 6$ |
| e | $n^2 + 6n - 5$ | f | $n^2 + 6n + 5$ |

2 Which answer is the same expression as this

$$(b + 7)(b + 5)$$

- | | | | |
|----------|------------------|----------|------------------|
| a | $b^2 - 35b + 12$ | b | $b^2 + 35b - 12$ |
| c | $b^2 + 35b + 12$ | d | $b^2 + 12b - 35$ |
| e | $b^2 - 12b + 35$ | f | $b^2 + 12b + 35$ |

3 Which answer is the same expression as this

$$(b + 7)(b + 4)$$

- | | | | |
|----------|------------------|----------|------------------|
| a | $b^2 + 11b + 28$ | b | $b^2 + 28b + 11$ |
| c | $b^2 + 11b - 28$ | d | $b^2 - 28b + 11$ |
| e | $b^2 - 11b + 28$ | f | $b^2 + 28b - 11$ |

4 Which answer is the same expression as this

$$(x + 4)(x + 6)$$

- | | | | |
|----------|------------------|----------|------------------|
| a | $x^2 + 10x + 24$ | b | $x^2 - 24x + 10$ |
| c | $x^2 + 24x - 10$ | d | $x^2 - 10x + 24$ |
| e | $x^2 + 10x - 24$ | f | $x^2 + 24x + 10$ |

5 Which answer is the same expression as this

$$(r + 9)(r + 6)$$

- | | | | |
|----------|------------------|----------|------------------|
| a | $r^2 + 15r + 54$ | b | $r^2 + 54r + 15$ |
| c | $r^2 - 15r + 54$ | d | $r^2 + 54r - 15$ |
| e | $r^2 + 15r - 54$ | f | $r^2 - 54r + 15$ |

6 Which answer is the same expression as this

$$(d + 3)(d + 6)$$

- | | | | |
|----------|-----------------|----------|-----------------|
| a | $d^2 + 9d - 18$ | b | $d^2 - 18d + 9$ |
| c | $d^2 - 9d + 18$ | d | $d^2 + 18d - 9$ |
| e | $d^2 + 18d + 9$ | f | $d^2 + 9d + 18$ |

7 Which answer is the same expression as this

$$(x + 5)(x + 7)$$

- | | | | |
|----------|------------------|----------|------------------|
| a | $x^2 + 12x - 35$ | b | $x^2 - 12x + 35$ |
| c | $x^2 + 12x + 35$ | d | $x^2 - 35x + 12$ |
| e | $x^2 + 35x + 12$ | f | $x^2 + 35x - 12$ |