



Math worksheet on 'Algebraic Functions - Simplify to Bracketed Terms, Different Variables (Level 1)'. Part of a broader unit on 'Polynomials and Quadratics - Practice'

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**2** Which answer is the same expression as this

$$rc + 6c + 8r + 48$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(r + 48)(c + 14)$ | <b>b</b> $(r + 6)(c + 8)$  |
| <b>c</b> $(r + 6)(c + 14)$  | <b>d</b> $(r + 6)(c - 8)$  |
| <b>e</b> $(r - 6)(c + 8)$   | <b>f</b> $(r + 48)(c + 8)$ |

**4** Which answer is the same expression as this

$$bn + 9n + 4b + 36$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(b + 36)(n + 13)$ | <b>b</b> $(b + 9)(n - 4)$  |
| <b>c</b> $(b + 36)(n + 4)$  | <b>d</b> $(b + 9)(n + 13)$ |
| <b>e</b> $(b - 9)(n + 4)$   | <b>f</b> $(b + 9)(n + 4)$  |

**6** Which answer is the same expression as this

$$xc + 2c + 3x + 6$$

- |                           |                           |
|---------------------------|---------------------------|
| <b>a</b> $(x + 2)(c + 3)$ | <b>b</b> $(x + 2)(c + 5)$ |
| <b>c</b> $(x + 6)(c + 3)$ | <b>d</b> $(x - 2)(c + 3)$ |
| <b>e</b> $(x + 6)(c + 5)$ | <b>f</b> $(x + 2)(c - 3)$ |

**1** Which answer is the same expression as this

$$bm + 4m + 4b + 16$$

- |                            |                            |
|----------------------------|----------------------------|
| <b>a</b> $(b + 4)(m + 4)$  | <b>b</b> $(b - 4)(m + 4)$  |
| <b>c</b> $(b + 4)(m + 8)$  | <b>d</b> $(b + 4)(m - 4)$  |
| <b>e</b> $(b + 16)(m + 8)$ | <b>f</b> $(b + 16)(m + 4)$ |

**3** Which answer is the same expression as this

$$mz + 9z + 5m + 45$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(m + 45)(z + 14)$ | <b>b</b> $(m + 9)(z + 5)$  |
| <b>c</b> $(m + 45)(z + 5)$  | <b>d</b> $(m + 9)(z - 5)$  |
| <b>e</b> $(m - 9)(z + 5)$   | <b>f</b> $(m + 9)(z + 14)$ |

**5** Which answer is the same expression as this

$$cz + 7z + 6c + 42$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(c - 7)(z + 6)$   | <b>b</b> $(c + 42)(z + 6)$ |
| <b>c</b> $(c + 42)(z + 13)$ | <b>d</b> $(c + 7)(z - 6)$  |
| <b>e</b> $(c + 7)(z + 13)$  | <b>f</b> $(c + 7)(z + 6)$  |

**7** Which answer is the same expression as this

$$cp + 8p + 4c + 32$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(c - 8)(p + 4)$   | <b>b</b> $(c + 32)(p + 4)$ |
| <b>c</b> $(c + 32)(p + 12)$ | <b>d</b> $(c + 8)(p - 4)$  |
| <b>e</b> $(c + 8)(p + 12)$  | <b>f</b> $(c + 8)(p + 4)$  |