



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

$$nb + 7b + 4n + 28$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(n + 28)(b + 4)$  | <b>b</b> $(n + 7)(b + 11)$ |
| <b>c</b> $(n + 28)(b + 11)$ | <b>d</b> $(n + 7)(b + 4)$  |
| <b>e</b> $(n - 7)(b + 4)$   | <b>f</b> $(n + 7)(b - 4)$  |

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

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

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

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

$$by + 8y + 8b + 64$$

- |                             |                            |
|-----------------------------|----------------------------|
| <b>a</b> $(b + 8)(y + 16)$  | <b>b</b> $(b + 64)(y + 8)$ |
| <b>c</b> $(b - 8)(y + 8)$   | <b>d</b> $(b + 8)(y - 8)$  |
| <b>e</b> $(b + 64)(y + 16)$ | <b>f</b> $(b + 8)(y + 8)$  |

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

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

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

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

$$cb + 5b + 4c + 20$$

- |                            |                            |
|----------------------------|----------------------------|
| <b>a</b> $(c + 20)(b + 9)$ | <b>b</b> $(c + 5)(b + 9)$  |
| <b>c</b> $(c - 5)(b + 4)$  | <b>d</b> $(c + 20)(b + 4)$ |
| <b>e</b> $(c + 5)(b - 4)$  | <b>f</b> $(c + 5)(b + 4)$  |

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

$$mc + 3c + 6m + 18$$

- |                            |                            |
|----------------------------|----------------------------|
| <b>a</b> $(m + 18)(c + 6)$ | <b>b</b> $(m + 18)(c + 9)$ |
| <b>c</b> $(m + 3)(c + 6)$  | <b>d</b> $(m - 3)(c + 6)$  |
| <b>e</b> $(m + 3)(c - 6)$  | <b>f</b> $(m + 3)(c + 9)$  |

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

$$bm + 6m + 3b + 18$$

- |                            |                            |
|----------------------------|----------------------------|
| <b>a</b> $(b - 6)(m + 3)$  | <b>b</b> $(b + 6)(m - 3)$  |
| <b>c</b> $(b + 18)(m + 9)$ | <b>d</b> $(b + 18)(m + 3)$ |
| <b>e</b> $(b + 6)(m + 9)$  | <b>f</b> $(b + 6)(m + 3)$  |