



Math worksheet on 'Algebraic Functions - Simplify to Bracketed Terms, Different Variables, with Coefficient (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

$$4bz + 28z + 7b + 49$$

- | | | | |
|----------|---------------------|----------|--------------------|
| a | $(4b + 4)(7z + 28)$ | b | $(b - 7)(4z + 7)$ |
| c | $(4b + 4)(7z + 7)$ | d | $(b + 7)(7z + 28)$ |
| e | $(7b + 7)(7z - 7)$ | f | $(b + 7)(4z + 7)$ |

4 Which answer is the same expression as this

$$18xm + 48m + 15x + 40$$

- | | | | |
|----------|---------------------|----------|----------------------|
| a | $(6x + 18)(3m + 8)$ | b | $(6x + 18)(3m + 48)$ |
| c | $(5x + 3)(8m + 48)$ | d | $(x - 3)(6m + 8)$ |
| e | $(3x + 8)(6m + 5)$ | f | $(3x + 3)(8m - 8)$ |

6 Which answer is the same expression as this

$$24nc + 27c + 48n + 54$$

- | | | | |
|----------|---------------------|----------|----------------------|
| a | $(8n + 9)(3c + 6)$ | b | $(3n + 24)(8c + 27)$ |
| c | $(8n + 8)(9c - 9)$ | d | $(3n + 24)(8c + 9)$ |
| e | $(6n + 8)(9c + 27)$ | f | $(n - 8)(3c + 9)$ |

1 Which answer is the same expression as this

$$24zx + 28x + 54z + 63$$

- | | | | |
|----------|----------------------|----------|---------------------|
| a | $(z - 6)(4x + 7)$ | b | $(9z + 6)(7x + 28)$ |
| c | $(6z + 6)(7x - 7)$ | d | $(6z + 7)(4x + 9)$ |
| e | $(4z + 24)(6x + 28)$ | f | $(4z + 24)(6x + 7)$ |

3 Which answer is the same expression as this

$$14rm + 14m + 63r + 63$$

- | | | | |
|----------|----------------------|----------|---------------------|
| a | $(2r + 14)(7m + 14)$ | b | $(2r + 14)(7m + 7)$ |
| c | $(r - 7)(2m + 7)$ | d | $(7r + 7)(2m + 9)$ |
| e | $(9r + 7)(7m + 14)$ | f | $(7r + 7)(7m - 7)$ |

5 Which answer is the same expression as this

$$5py + 20y + 6p + 24$$

- | | | | |
|----------|--------------------|----------|---------------------|
| a | $(p - 7)(5y + 4)$ | b | $(5p + 5)(7y + 20)$ |
| c | $(5p + 5)(7y + 4)$ | d | $(p + 4)(5y + 6)$ |
| e | $(7p + 7)(4y - 4)$ | f | $(p + 7)(4y + 20)$ |

7 Which answer is the same expression as this

$$2bx + 12x + 7b + 42$$

- | | | | |
|----------|--------------------|----------|---------------------|
| a | $(5b + 5)(6x - 6)$ | b | $(b + 5)(6x + 12)$ |
| c | $(b - 5)(2x + 6)$ | d | $(2b + 2)(5x + 12)$ |
| e | $(b + 6)(2x + 7)$ | f | $(2b + 2)(5x + 6)$ |