Math worksheet on *'Algebraic Functions - Simplify to Bracketed Terms, Different Variables, with Coefficient (Level 2)'*. Part of a broader unit on *'Polynomials and Quadratics - Advanced'*

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1 Which answer is the same expression as this

$$10rz + 45z - 14r - 63$$

a	$(2r + 2)(9z - 9)$	**b**	$(r - 2)(5z + 9)$
c	$(2r + 9)(5z - 7)$	**d**	$(2r - 9)(5z + 7)$
e	$(5r + 10)(2z + 9)$	**f**	$(2r - 9)(5z - 7)$

2 Which answer is the same expression as this

$$56pd + 21d - 48p - 18$$

a	$(8p - 3)(7d - 6)$	**b**	$(8p + 8)(3d - 3)$
c	$(p - 8)(7d + 3)$	**d**	$(8p - 3)(7d + 6)$
e	$(8p + 3)(7d - 6)$	**f**	$(7p + 56)(8d + 3)$

3 Which answer is the same expression as this

$$30xy - 42y - 35x + 49$$

a	$(5x + 7)(6y - 7)$	**b**	$(5x - 7)(6y - 7)$
c	$(5x - 7)(6y + 7)$	**d**	$(6x + 30)(5y - 7)$
e	$(x - 5)(6y - 7)$	**f**	$(5x + 5)(7y - 7)$

4 Which answer is the same expression as this

$$36zx + 28x + 81z + 63$$

a	$(9z - 7)(4x + 9)$	**b**	$(9z + 7)(4x - 9)$
c	$(9z + 7)(4x + 9)$	**d**	$(z - 9)(4x + 7)$
e	$(9z + 9)(7x - 7)$	**f**	$(9z - 7)(4x - 9)$

5 Which answer is the same expression as this

$$24np + 15p + 72n + 45$$

a	$(8n + 5)(3p - 9)$	**b**	$(8n + 5)(3p + 9)$
c	$(8n - 5)(3p - 9)$	**d**	$(8n - 5)(3p + 9)$
e	$(8n + 8)(5p - 5)$	**f**	$(n - 8)(3p + 5)$

6 Which answer is the same expression as this

$$9cp - 12p - 9c + 12$$

a	$(3c - 4)(3p + 3)$	**b**	$(3c + 9)(3p - 4)$
c	$(3c + 3)(4p - 4)$	**d**	$(c - 3)(3p - 4)$
e	$(3c - 4)(3p - 3)$	**f**	$(3c + 4)(3p - 3)$

7 Which answer is the same expression as this

$$10mr - 4r - 40m + 16$$

a	$(5m + 2)(2r - 8)$	**b**	$(m - 5)(2r - 2)$
c	$(2m + 10)(5r - 2)$	**d**	$(5m - 2)(2r + 8)$
e	$(5m - 2)(2r - 8)$	**f**	$(5m + 5)(2r - 2)$