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

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1 Which answer is the same expression as this

$$xn + 6n - 3x - 18$$

a	$(x+6)(n-3)$	b	$(x-18)(n+9)$
c	$(x-6)(n+3)$	d	$(x+6)(n+3)$
e	$(x+18)(n-3)$	f	$(x+6)(n-9)$

2 Which answer is the same expression as this

$$by - 3y - 7b + 21$$

a	$(b+3)(y-10)$	b	$(b-3)(y-7)$
c	$(b+3)(y+7)$	d	$(b-3)(y+7)$
e	$(b+21)(y-7)$	f	$(b+3)(y-7)$

3 Which answer is the same expression as this

$$pn + 7n + 8p + 56$$

a	$(p+56)(n+8)$	b	$(p-7)(n+8)$
c	$(p+7)(n+8)$	d	$(p+7)(n+15)$
e	$(p+7)(n-8)$	f	$(p+56)(n+15)$

4 Which answer is the same expression as this

$$nc + 6c + 2n + 12$$

a	$(n+12)(c+2)$	b	$(n+12)(c+8)$
c	$(n+6)(c-2)$	d	$(n+6)(c+8)$
e	$(n-6)(c+2)$	f	$(n+6)(c+2)$

5 Which answer is the same expression as this

$$xp + 3p - 2x - 6$$

a	$(x+3)(p-2)$	b	$(x+3)(p-5)$
c	$(x-3)(p+2)$	d	$(x+3)(p+2)$
e	$(x+6)(p-2)$	f	$(x-6)(p+5)$

6 Which answer is the same expression as this

$$xc + 8c + 2x + 16$$

a	$(x-8)(c+2)$	b	$(x+8)(c-2)$
c	$(x+16)(c+10)$	d	$(x+16)(c+2)$
e	$(x+8)(c+2)$	f	$(x+8)(c+10)$

7 Which answer is the same expression as this

$$md + 9d - 8m - 72$$

a	$(m+72)(d-8)$	b	$(m+9)(d-17)$
c	$(m+9)(d-8)$	d	$(m-72)(d+17)$
e	$(m-9)(d+8)$	f	$(m+9)(d+8)$