



## Algebraic Functions - Simplify to Bracketed Terms, Different Variables,

### with Coefficient

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

$$28bx - 14x - 8b + 4$$

A  $(4b + 2)(7x - 2)$

B  $(b - 4)(7x - 2)$

C  $(7b + 28)(4x - 2)$

D  $(4b - 2)(7x - 2)$

E  $(4b + 4)(2x - 2)$

F  $(4b - 2)(7x + 2)$

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

$$56nc - 49c - 40n + 35$$

A  $(8n + 7)(7c - 5)$

B  $(7n + 56)(8c - 7)$

C  $(n - 8)(7c - 7)$

D  $(8n - 7)(7c + 5)$

E  $(8n + 8)(7c - 7)$

F  $(8n - 7)(7c - 5)$

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

$$24dr + 12r + 64d + 32$$

A  $(d - 8)(3r + 4)$

B  $(8d + 4)(3r + 8)$

C  $(8d - 4)(3r + 8)$

D  $(8d - 4)(3r - 8)$

E  $(8d + 4)(3r - 8)$

F  $(8d + 8)(4r - 4)$

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

$$20cm - 25m - 32c + 40$$

A  $(4c + 4)(5m - 5)$

B  $(5c + 20)(4m - 5)$

C  $(4c - 5)(5m + 8)$

D  $(4c - 5)(5m - 8)$

E  $(c - 4)(5m - 5)$

F  $(4c + 5)(5m - 8)$

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

$$16cp + 40p + 6c + 15$$

A  $(2c + 5)(8p - 3)$

B  $(2c - 5)(8p + 3)$

C  $(2c - 5)(8p - 3)$

D  $(2c + 2)(5p - 5)$

E  $(c - 2)(8p + 5)$

F  $(2c + 5)(8p + 3)$

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

$$24np + 54p + 16n + 36$$

A  $(4n - 9)(6p - 4)$

B  $(4n + 4)(9p - 9)$

C  $(n - 4)(6p + 9)$

D  $(4n + 9)(6p - 4)$

E  $(4n - 9)(6p + 4)$

F  $(4n + 9)(6p + 4)$

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

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

A  $(7p + 56)(8d + 3)$

B  $(8p + 8)(3d - 3)$

C  $(p - 8)(7d + 3)$

D  $(8p + 3)(7d - 6)$

E  $(8p - 3)(7d + 6)$

F  $(8p - 3)(7d - 6)$

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

$$18zd + 72d + 10z + 40$$

A  $(z - 2)(9d + 8)$

B  $(2z + 8)(9d + 5)$

C  $(2z - 8)(9d - 5)$

D  $(2z - 8)(9d + 5)$

E  $(2z + 8)(9d - 5)$

F  $(2z + 2)(8d - 8)$