Math worksheet on *'Algebraic Functions - Different Variable Times Bracketed Terms (Level 2)'*. Part of a broader unit on *'Algebra Manipulating Variables - Advanced'*

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

$$c(5r - 8)$$

| | | | |
|---|---|---|---|
| **a** | $8cr + 8$ | **b** | $5cr - 8c$ |
| **c** | $cr + c$ | **d** | $8r^2 + 8c$ |
| **e** | $5c^2 + 8c$ | **f** | $5cr + 8c$ |

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

$$b(8m + 7)$$

| | | | |
|---|---|---|---|
| **a** | $7bm + 7$ | **b** | $m^2 + 7b$ |
| **c** | $bm + 8b$ | **d** | $8bm - 7b$ |
| **e** | $7b^2 + 7b$ | **f** | $8bm + 7b$ |

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

$$y(6z + 3)$$

| | | | |
|---|---|---|---|
| **a** | $3y^2 + 3y$ | **b** | $6yz - 3y$ |
| **c** | $z^2 + 3y$ | **d** | $3yz + 3$ |
| **e** | $yz + 6y$ | **f** | $6yz + 3y$ |

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

$$5r(4 - x)$$

| | | | |
|---|---|---|---|
| **a** | $4r + rx$ | **b** | $9rx + 4r$ |
| **c** | $20rx + 4r$ | **d** | $20rx + 4$ |
| **e** | $20r - 5rx$ | **f** | $4x - 4r$ |

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

$$c(8p + 9)$$

| | | | |
|---|---|---|---|
| **a** | $9cp + 9$ | **b** | $8cp + 9c$ |
| **c** | $9c^2 + 9c$ | **d** | $cp + 8c$ |
| **e** | $8cp - 9c$ | **f** | $p^2 + 9c$ |

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

$$n(5z + 6)$$

| | | | |
|---|---|---|---|
| **a** | $nz + 5n$ | **b** | $z^2 + 6n$ |
| **c** | $6n^2 + 6n$ | **d** | $5nz - 6n$ |
| **e** | $5nz + 6n$ | **f** | $6nz + 6$ |

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

$$p(2r - 7)$$

| | | | |
|---|---|---|---|
| **a** | $2pr + 7p$ | **b** | $7pr + 7$ |
| **c** | $2pr - 7p$ | **d** | $pr + p$ |
| **e** | $2p^2 + 7p$ | **f** | $7r^2 + 7p$ |