



Math worksheet on 'Algebraic Functions - Same Variable Times Bracketed Terms (Level 2)'. Part of a broader unit on 'Polynomials and Quadratics - Intro'

Learn online: app.mobius.academy/math/units/polynomials_and_quadratics_intro/

1 Which answer is the same expression as this

$$2p(p + 2)$$

- | | | | |
|----------|-------------|----------|-------------|
| a | $2p^2 + 4p$ | b | $2p^2 - 4p$ |
| c | $2p^2 - 4p$ | d | $2p^2 - 2p$ |
| e | $2p + 2p$ | f | $2p^2 + 2p$ |

2 Which answer is the same expression as this

$$d(3 - 8d)$$

- | | | | |
|----------|--------------|----------|------------|
| a | $11d - 3d^2$ | b | $3d - 2d$ |
| c | $3d - 8d^2$ | d | $d + 3$ |
| e | $3d + 2d^2$ | f | $3d - d^2$ |

3 Which answer is the same expression as this

$$4m(m + 7)$$

- | | | | |
|----------|--------------|----------|--------------|
| a | $4m^2 + 11m$ | b | $4m^2 + 28m$ |
| c | $4m^2 + 4m$ | d | $4m^2 - 28m$ |
| e | $4m^2 - 7m$ | f | $4m^2 - 11m$ |

4 Which answer is the same expression as this

$$b(4 - 8b)$$

- | | | | |
|----------|-------------|----------|--------------|
| a | $b + 4$ | b | $4b - 2b$ |
| c | $4b - b^2$ | d | $12b - 4b^2$ |
| e | $4b + 2b^2$ | f | $4b - 8b^2$ |

5 Which answer is the same expression as this

$$x(5 - 5x)$$

- | | | | |
|----------|-------------|----------|--------------|
| a | $5x + 2x^2$ | b | $x + 5$ |
| c | $5x - x^2$ | d | $10x - 5x^2$ |
| e | $5x - 2x$ | f | $5x - 5x^2$ |

6 Which answer is the same expression as this

$$y(5y - 2)$$

- | | | | |
|----------|--------------|----------|-------------|
| a | $5y^2 + 7y$ | b | $5y^2 - 2y$ |
| c | $5y^2 - 10y$ | d | $5y^2 + 5y$ |
| e | $5y^2 + 2y$ | f | $5y^2 - 7y$ |

7 Which answer is the same expression as this

$$7r(r + 5)$$

- | | | | |
|----------|--------------|----------|--------------|
| a | $7r^2 + 12r$ | b | $7r^2 - 12r$ |
| c | $7r^2 + 7r$ | d | $7r^2 - 35r$ |
| e | $7r^2 + 35r$ | f | $7r^2 - 5r$ |