

Examples



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Workout

Question 1: Expand the following brackets

- |                  |                   |                  |                       |
|------------------|-------------------|------------------|-----------------------|
| (a) $5(y + 3)$   | (b) $4(a + 2)$    | (c) $8(w + 10)$  | (d) $3(x - 7)$        |
| (e) $9(s - 1)$   | (f) $2(8 - t)$    | (g) $7(4 + h)$   | (h) $10(a + 2b + 3c)$ |
| (i) $4(3y + 2)$  | (j) $5(2p - 1)$   | (k) $3(7a + 2)$  | (l) $9(2x - 5)$       |
| (m) $5(4 + 3t)$  | (n) $7(9 - 2c)$   | (o) $8(3w + 1)$  | (p) $9(1 - 4p)$       |
| (q) $11(2k - 5)$ | (r) $20(6a + 5c)$ | (s) $3(15w - 7)$ | (t) $3(9 - 2a)$       |

Question 2: Expand the following brackets

- |                 |                  |                  |                   |
|-----------------|------------------|------------------|-------------------|
| (a) $-2(w + 5)$ | (b) $-3(c + 7)$  | (c) $-8(c + 7)$  | (d) $-10(y - 2)$  |
| (e) $-7(g - 3)$ | (f) $-4(2w + 3)$ | (g) $-9(3w - 5)$ | (h) $-9(5x - 1)$  |
| (i) $-5(6 - c)$ | (j) $-6(4 + 3m)$ | (k) $-2(1 + 9c)$ | (l) $-5(8a - 7w)$ |

Question 3: Expand the following brackets

- |                  |                  |                  |                   |
|------------------|------------------|------------------|-------------------|
| (a) $a(c + 2)$   | (b) $c(d - 3)$   | (c) $a(b + c)$   | (d) $w(8 - y)$    |
| (e) $c(5 + a)$   | (f) $w(a - 9)$   | (g) $y(s + t)$   | (h) $2a(c - 3)$   |
| (i) $5x(y + 8)$  | (j) $3a(2c + 9)$ | (k) $6g(2c - 1)$ | (l) $9k(2 + d)$   |
| (m) $5(2f + 9w)$ | (n) $3y(5p + 2)$ | (o) $2s(t + 1)$  | (p) $-4a(8x - 3)$ |

Question 4: Expand the following brackets

- |                 |                  |                  |                   |
|-----------------|------------------|------------------|-------------------|
| (a) $a(a + 2)$  | (b) $y(y - 5)$   | (c) $w(a + w)$   | (d) $c(9 - c)$    |
| (e) $p(2p + 5)$ | (f) $2w(3w - 1)$ | (g) $9y(2y + 3)$ | (h) $4c(2a + 5c)$ |

## Expanding Brackets

Video 13 on [www.corbettmaths.com](http://www.corbettmaths.com)

- (i)  $2u(3 - u)$       (j)  $m(m^2 + 3)$       (k)  $y(y^2 - 7)$       (l)  $g^2(g - 8)$   
 (m)  $2w(w^2 + 6)$       (n)  $4a(2a^2 - 3)$       (o)  $5c(3c^2 - a)$       (p)  $8w(3w^2 + 3y)$   
 (q)  $x^2(x^2 + 4)$       (r)  $3w^2(7 + 2w^2)$

Question 5: Expand and simplify

- (a)  $5(y + 3) + 2(y + 7)$       (b)  $6(2w + 5) + 9(w + 2)$       (c)  $3(y - 2) + 4(2y + 5)$   
 (d)  $7(2g + 3) - 5(g + 2)$       (e)  $6(x - 2) - 4(x - 8)$       (f)  $2(3y - 8) - 5(2y - 1)$   
 (g)  $8(5 + 2m) + 3(5 - 3m)$       (h)  $4(w + 7) - 2(2w + 1)$       (i)  $9(1 + 2y) + 3(3 - y)$

Question 6: Expand and simplify

- (a)  $w(w + 5) + w(w + 7)$       (b)  $2g(4g + 3) + g(g - 7)$       (c)  $n(n - 4) - n(5 - n)$   
 (d)  $2e(4e + 3) - 3e(e - 5)$       (e)  $a(3 + c) + c(a + 2)$       (f)  $m(a + 7) - a(4 - 3m)$   
 (g)  $8c(8 - 3a) + 3(4 - c)$       (h)  $5y(3y + z) - 2y(4y - 3z)$       (i)  $4c(3c - c^2) - 2c^2(4 - 5c)$

Apply

Question 1: Can you spot any mistakes in the questions below.

Expand  $3(2y - 1)$

$$6y - 1$$

Multiply out  $x(x + 3)$

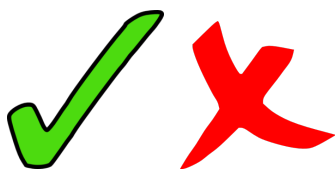
$$2x + 3x = 5x$$

Expand and simplify  $6(w + 3) - 2(w - 5)$

$$6w + 18 - 2w - 10$$

$$= 4w + 8$$

Answers



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