



Expanding Brackets

1 Expand the following

| | | |
|---------------|---------------|---------------|
| a) $4(b + 5)$ | b) $2(p + 3)$ | b) $6(a + 2)$ |
| c) $3(a + b)$ | d) $5(d + c)$ | e) $7(g + k)$ |

2 Expand the following

| | | |
|---------------|---------------|---------------|
| a) $6(a + 3)$ | b) $5(a + 4)$ | c) $3(b + 7)$ |
| d) $2(p + q)$ | e) $(a + b)4$ | f) $8(s + u)$ |
| g) $7(t + 5)$ | h) $2(t + 5)$ | i) $5(m + v)$ |

3 Remove the grouping symbols and simplify where possible

| | | |
|--------------------|---------------------|---------------------|
| a) $2(a + 5) + 8$ | b) $5(3a + 2) + 7a$ | c) $15 + 5(b + 2)$ |
| d) $6a + 2(a + 4)$ | e) $3a + 2(a + b)$ | f) $4(a + 4) - 16$ |
| g) $7(y + 2) - 3y$ | h) $3(4a + 2) - 4$ | i) $6(a + b) - 2b$ |
| j) $9y + 3(5 + y)$ | k) $7m + 3(m + 1)$ | l) $3(2a + 2) - 4a$ |

Answers

Question 1

| | | |
|--------------|--------------|--------------|
| a) $4b + 20$ | b) $2p + 6$ | b) $6a + 12$ |
| c) $3a + 3b$ | d) $5d + 5c$ | e) $7g + 7k$ |

2 Expand the following

| | | |
|--------------|--------------|--------------|
| a) $6a + 18$ | b) $5a + 20$ | c) $3b + 21$ |
| d) $2p + 2q$ | e) $4a + 4b$ | f) $8s + 8u$ |
| g) $7t + 35$ | h) $2t + 10$ | i) $5m + 5v$ |

3 Remove the grouping symbols and simplify where possible

| | | |
|---------------|---------------|--------------|
| a) $2a + 18$ | b) $22a + 10$ | c) $25 + 5b$ |
| d) $8a + 8$ | e) $5a + 2b$ | f) $4a$ |
| g) $4y + 14$ | h) $12a + 2$ | i) $6a + 4b$ |
| j) $10y + 15$ | k) $10m + 3$ | l) $2a + 6$ |