

Simplifying expressions

1. $4x + 7x + 8x + 9x$

2. $9y + 3y + 6y - 9y$

3. $7k + 5k - 3k - 6k$

4. $8w - 3w + 8w - 7w$

5. $5r^2 + 4r^2 - 3r^2$

6. $9v^3 + 11v^3 - 2v^3$

7. $5c + 9c$

8. $2k + 6k - 9k$

9. $6m + 9n - 2n$

10. $5q + 8q + 3q - q$

11. $4p + 5p - 5p$

12. $3t + 4t + 5t - 6t$

1. $5x - 7y + 8x + 10y$

2. $7c - 9d + 2c - 3d$

3. $5a + 6b + 6a - a$

4. $11w - 3v - 5w - 7v$

5. $7y^2 + 6y - 2y^2 - 8y$

6. $8p^3 + 7p^2 - 3p - 4p^2$

7. $7m - 5n - 4m - 7n - 2n$

8. $8 - 9s - 2 + 17s$

9. $7ac - 8ab + 11ab + 5ac$

10. $7p - 12q - 2q + 3p$

11. $3c^2 + 9ab + 10c^2 - ab$

12. $n - 14m - 8n - 2m + 8$

1. $4(x + 3) + 7(x + 1)$

2. $3(2y + 3) + 9(y + 5)$

3. $5n + 2(n + 9) + 3$

4. $2(5x + 1) + 2(7x + 1)$

5. $5(2a + 1) + 5(2a - 9)$

6. $2(3c + 4) + 3(c - 2)$

7. $3(k - 6) + 5(k - 1)$

8. $8x(3x + 2) - 9x(x + 2)$

9. $5(2y - 4) + 6(3y - 6)$

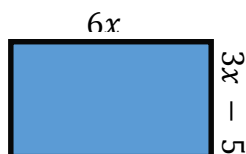
10. $2(7g - 5) - 2(g - 11)$

11. $5f(3f + 4) - 3f(2f - 6)$

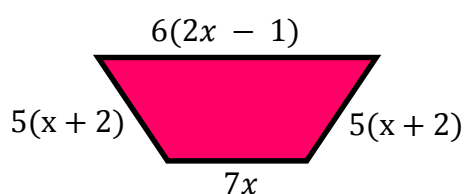
12. $4x(2x - 1) + 2x(3x + 5)$

1. Write down the perimeter of each shape in its simplest form.

a)



b)



2. Find an expression for the perimeter of this shape in its simplest form.

