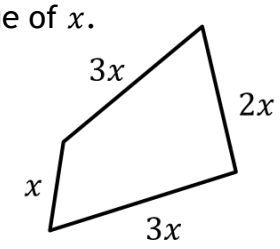
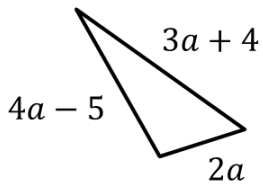
Form and Solve Linear Equations for Problems Involving Area and Perimeter: Exercise 1

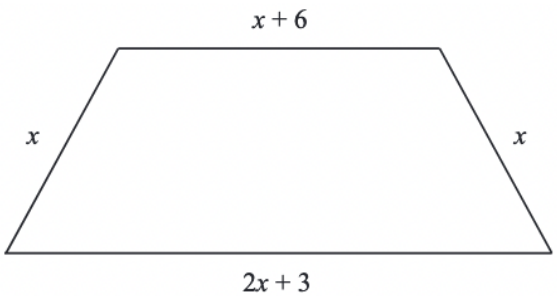
1 The perimeter of this quadrilateral is 27 cm, find the value of x.



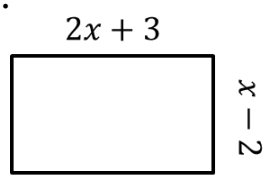
2 The perimeter of this triangle is 44 mm, find the value of a.



3 *[CCEA GCSE Jan 2015 T2 Foundation Q27b (Edited)]*
The perimeter of the trapezium is 34 cm.
Find the value of x.



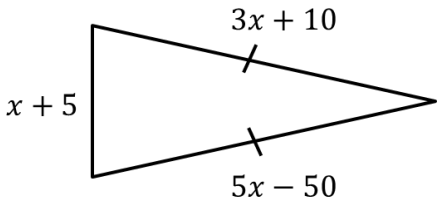
4 The perimeter of this rectangle is 44.
What is x?



a Find x.
b Find the area.

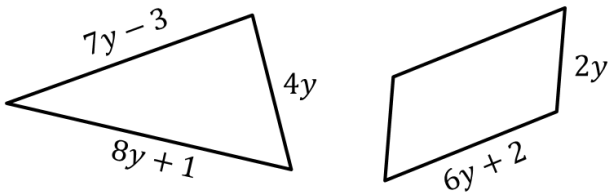
5 *[WJEC GCSE June 2019 2I Q9c, June 2019 2H Q1c]*
A rectangle has a length of $(x + 5)$ cm and a width of $(2x - 3)$ cm. Its perimeter is 46 cm.
Calculate the value of x.

6 The following triangle is isosceles. Determine its perimeter (by first determining x).

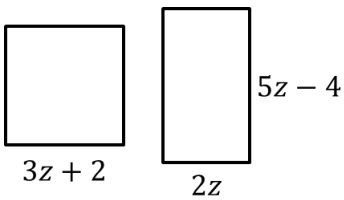


7 An equilateral triangle has lengths $3x + 6, 5x, 5x$. What is x?

8 The perimeter of the triangle is equal to the perimeter of the parallelogram. Find the value of y.



9 The perimeter of the square is 10 units longer than the perimeter of the rectangle. Find z.



☠ Shape A has a perimeter which is half the length of shape B. Find the exact area of A.