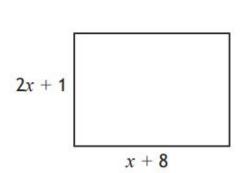
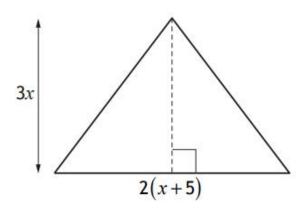
National 5 Maths SQA 2016 Paper 1 Question 12



The diagrams below show a rectangle and a triangle.

All measurements are in centimetres.





(a) Find an expression for the area of the rectangle.

- 1
- (b) Given that the area of the rectangle is equal to the area of the triangle, show that $x^2 2x 8 = 0$.
- 3
- (c) Hence find, algebraically, the length and breadth of the rectangle.

3

Answers:

- (a) (2x+1)(x+8) or equivalent
- (b) Expand area of rectangle, equate to area of triangle and rearrange into required form.
- (c) 12 cm and 9 cm