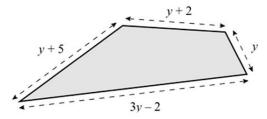
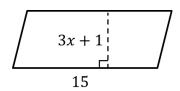
## Form and Solve Linear for Problems Involving Area and Perimeter: Mixed Exercise



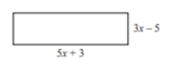
[NZQA L1 Maths and Stats 91027/2 Sep 2021 Q1a] Given that the perimeter of the shape shown below is 35 cm, find the value of y.



The parallelogram below has an area of  $105 \text{ cm}^2$ . Find the value of x.



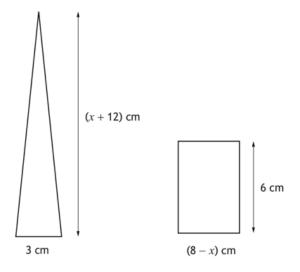
- A rectangle has side lengths (5 x) and (2x + 3). The perimeter of the rectangle is 20 cm.
- $\overline{a}$  Find the value of x.
- **b** Find the area of the rectangle.
- [NZQA L1 Maths and Stats 91027/2 Sep 2022 Q1a] The rectangle and square, shown below, have the same **perimeter** as each other.



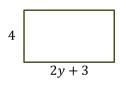


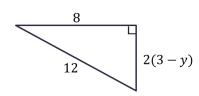
[SQA National 5 2022 P1 Q15b]
A triangle and rectangle are shown in the diagram.

Given that the area of the triangle is equal to the area of the rectangle, find algebraically the value of x.

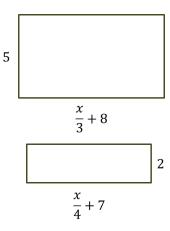


The rectangle and the triangle shown have the same perimeter.
Find the area of each shape.

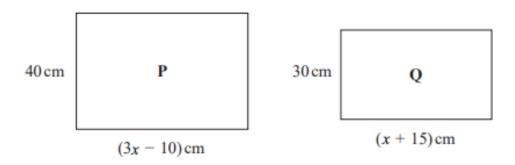




The area of the larger rectangle is triple the area of the smaller rectangle. Determine the value of x.



Painting P has an area  $1400 \text{ cm}^2$  more than the area of painting Q. Work out the area of painting P.



The smaller rectangle is a quarter of the size of the larger rectangle. Find the shaded region.

