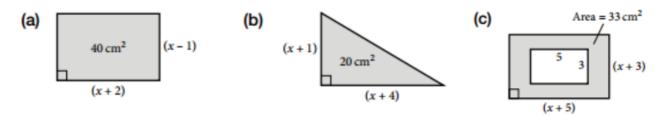
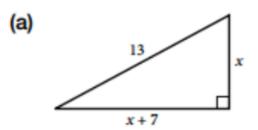
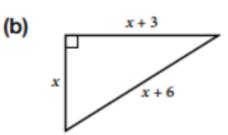
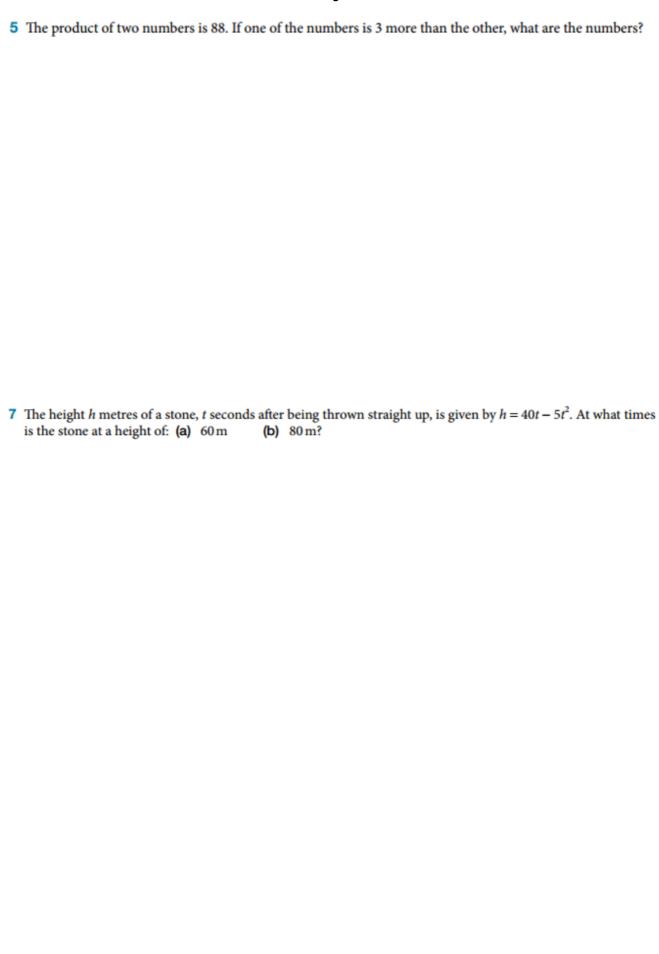
1 In each diagram, all measurements are in centimetres and the area of the shaded region is given. Find the value of *x* in each case.



3 Use Pythagoras' theorem to find the value of x, given that all measurements are in centimetres.







9	A rectangular swimming pool, $12m$ by $8m$ , is surrounded by a concrete path of uniform width. If the area of the path alone is $224m^2$ , find its width.

13 In a right-angled triangle, one of the sides adjacent to the right angle is 4cm longer than the other side. If the

area o	area of the triangle is 96 cm <sup>2</sup> , find the length of each of the three sides.								

- 14 The perimeter of a rectangle is 40 cm and its area is 84 cm<sup>2</sup>.
  - (a) If the breadth of the rectangle is x cm, express the length in terms of x.
  - **(b)** Write the area of the rectangle in terms of *x*.
  - (c) Form a quadratic equation in x and solve it to find the length and breadth.