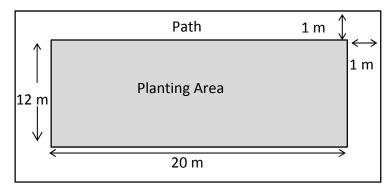Answer **all eight** questions from this section.

Question 1   **(25 marks)**

Dáithí is planning a new garden. The garden has a rectangular planting area, surrounded by a path.
The planting area is 20 m long and 12 m wide. The path is 1 m wide.
A diagram of the garden is drawn below.

(a)   Find the perimeter of the planting area.
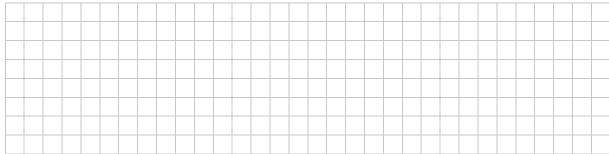
  Perimeter = 12 + 20 + 12 + 20 =   m

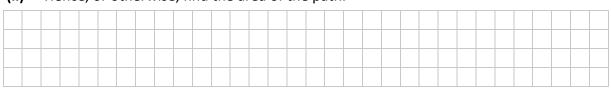**(b)**   Find the area of the planting area.

  Area = 12 × 20 = m^2

(c)   The path is 1 m wide.
   (i)   Find the total area of the garden including the path.
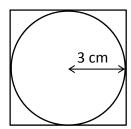
   (ii)   Hence, or otherwise, find the area of the path.

Question 5 (25 marks)

(a) A circular disc is cut out of a square piece of metal as shown below.
The disc has a radius of 3 cm.

3 cm

(i) Find the area of the disc. Give your answer correct to 1 decimal place.

(ii) Find the area of metal left after the disc has been removed.
Give your answer in cm², correct to 1 decimal place.