Question 1: Calculate the area of each of these semi-circles.
Give your answers to 1 decimal place and include suitable units.

(a) ![Diagram](https://via.placeholder.com/150)
(b) ![Diagram](https://via.placeholder.com/150)
(c) ![Diagram](https://via.placeholder.com/150)
(d) ![Diagram](https://via.placeholder.com/150)
(e) ![Diagram](https://via.placeholder.com/150)
(f) ![Diagram](https://via.placeholder.com/150)

Question 2: Work out the area of each of these semi-circles.
Give your answers in terms of $\pi$ and include suitable units.

(a) ![Diagram](https://via.placeholder.com/150)
(b) ![Diagram](https://via.placeholder.com/150)
(c) ![Diagram](https://via.placeholder.com/150)
(d) ![Diagram](https://via.placeholder.com/150)
(e) ![Diagram](https://via.placeholder.com/150)
(f) ![Diagram](https://via.placeholder.com/150)

Question 3: Calculate the size of $x$.

(a) ![Diagram](https://via.placeholder.com/150)
(b) ![Diagram](https://via.placeholder.com/150)
(c) ![Diagram](https://via.placeholder.com/150)
Question 1: Calculate the shaded area

(a) [Diagram showing a rectangle with a semi-circle cut out. The dimensions are 14 cm, 8 cm, and 10 cm.]

(b) [Diagram showing a semi-circle with 4 smaller circles inside. The dimensions are 16 cm, 2 cm, 2 cm, and 2 cm.]

Question 2: Calculate the area

(a) [Diagram of an ellipse with dimensions 15 cm and 6 cm.]

(b) [Diagram of a shape with 4 quarter-circles. The dimensions are 20 cm and 20 cm.]

Question 3: Farmer Jenkins is planting a crop in his semi-circular field. The seed costs £0.80 per square metre. When fully grown, Farmer Jenkins can sell the crop from 4m² for £45. Calculate the profit he should make.

Answers

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