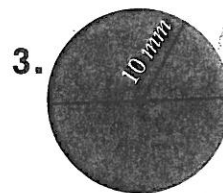
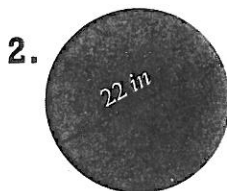
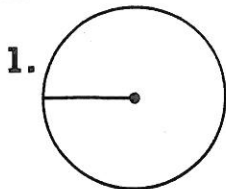


EXERCISES

Find the area of each circle. Use 3.14 for π .



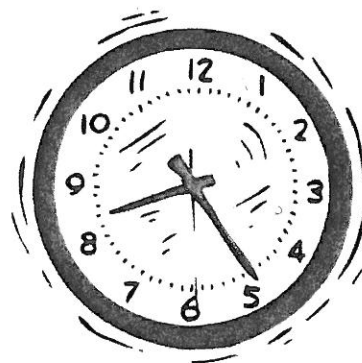
4. Mark set up a sprinkler to water the backyard. The sprinkler waters in a circular motion. The radius of the area covered by the sprinkler is 12 feet. Find the approximate square footage of the watered area.

5. An extra large pizza has a radius of 16 inches. Find the area of the pizza.

6. A circular tablecloth has a diameter of 14 feet. What is the area of the tablecloth?

7. Heceta Head Lighthouse is located just south of Florence in Southern Oregon. The lighthouse beam reaches 21 miles in all directions. How many square miles does the light cover? Round the answer to the nearest square mile.

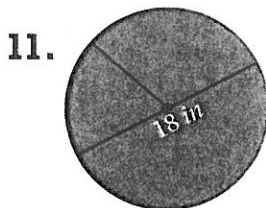
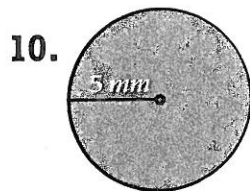
8. The diameter of a classroom clock face is 13 inches. Find the area of the clock face.



9. Lacey plans to put another window in her bedroom. She needs to decide whether to put in two small windows, each with a 1 foot radius, or one large window with a 2 foot radius.

- Find the total area of the two small windows.
- Find the area of the large window.
- She wants as much sunlight as possible in her room. Which option should she use?

Calculate the exact area of each circle.



12. A circle with a diameter of 14.4 feet.

13. A milling machine is programmed to cut a hole with a radius of 8 millimeters. The computer program requires the programmer to enter the area of the hole. Find the exact area of the hole.

14. A circle has a radius of 1 inch. Find the exact area of the circle.