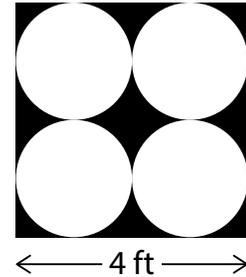


Ready® Mathematics**Lesson 21 Quiz****Solve the problems.**

- 1** Anna cuts four identical circles from a square piece of black poster board as shown.

What is the area of the leftover poster board? Use 3.14 for π .

- A** 3.44 square feet
B 6.58 square feet
C 12.56 square feet
D 12.86 square feet



- 2** Roscoe traced around the bottom of a can to draw a circle.

Tell whether each statement about Roscoe's circle is *True* or *False*.

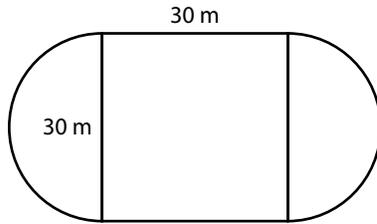
Use 3.14 for π .

- a.** If the circle has a circumference of 6π inches, then it has a diameter of 3 inches. True False
- b.** If the circle has a diameter of 2 inches, then it has a circumference of 6.28 inches. True False
- c.** If the circle has a circumference of 2π inches, then it has an area of π square inches. True False
- d.** If the circle has a circumference of π inches, then it has an area of 0.5π square inches. True False
- e.** If the circle has a radius of 1.5 inches, then it has an area of 7.065 square inches. True False

- 3** A special truck cleans the surface of the ice rink shown below.

The figure is composed of a square and two semicircles.



Lesson 21 Quiz continued

If the truck cleans the entire surface, how many square meters of ice will the truck clean? Use 3.14 for π . Round your answer to the nearest tenth.

Show your work.

Answer: _____ square meters

- 4** Scott wants to buy fencing to place around a semicircular rock garden. The diameter of the semicircle is 16 feet. Using 3.14 for π , he calculates that he needs to buy about 25.12 feet of fencing. The fencing is sold by the foot, so he plans to buy 26 feet of fencing.

Explain why Scott's reasoning is incorrect, and find the correct amount of fencing he should buy.

