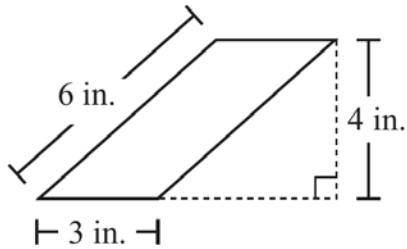


- 1 A parallelogram and its dimensions are shown below.



What is the area of the parallelogram?

- A. 12 sq. in.
- B. 13 sq. in.
- C. 18 sq. in.
- D. 24 sq. in.

Mark your answer here: 1. (A)(B)(C)(D)

- 2 The circumference of Sophie’s circular flower garden is 75 feet. Which of the following is closest to the **diameter** of her flower garden?

- A. 24 feet
- B. 12 feet
- C. 10 feet
- D. 5 feet

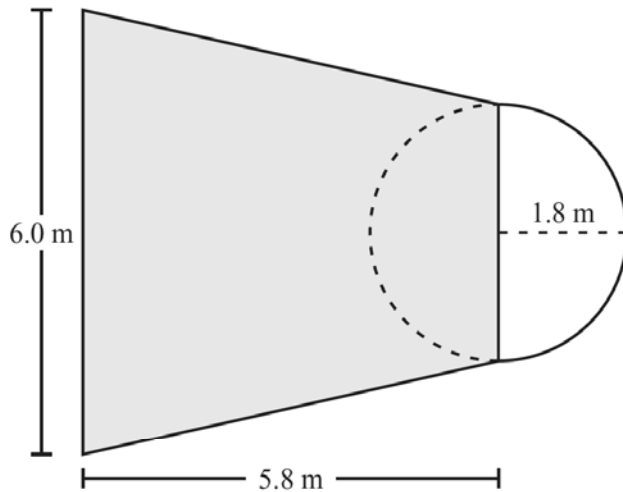
Mark your answer here: 2. (A)(B)(C)(D)



3 An international basketball court has a region called the free-throw lane, shown as the shaded part in the diagram below.

Mark your answer here: 3. (A)(B)(C)(D)

- The free-throw lane is shaped like an isosceles trapezoid.
- A semicircle, shown as the unshaded part in the diagram, is attached to the shorter base of the trapezoid.
- The radius of the semicircle is 1.8 meters.

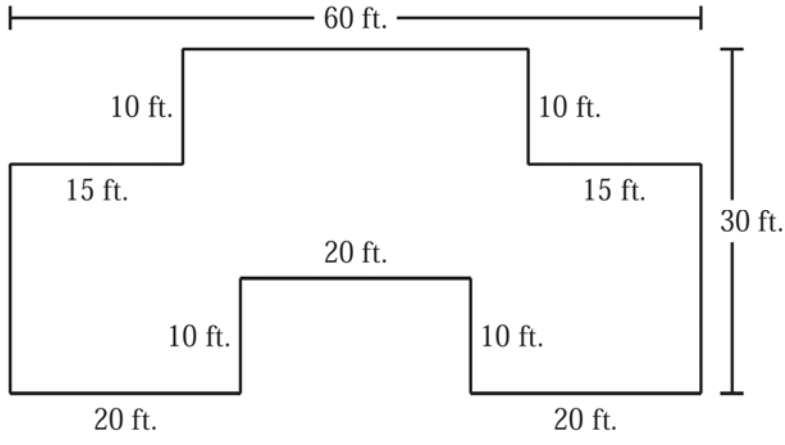


Based on the dimensions in the diagram, what is the area of the shaded free-throw lane?

- A. 22.62 square meters
- B. 27.84 square meters
- C. 34.80 square meters
- D. 55.68 square meters



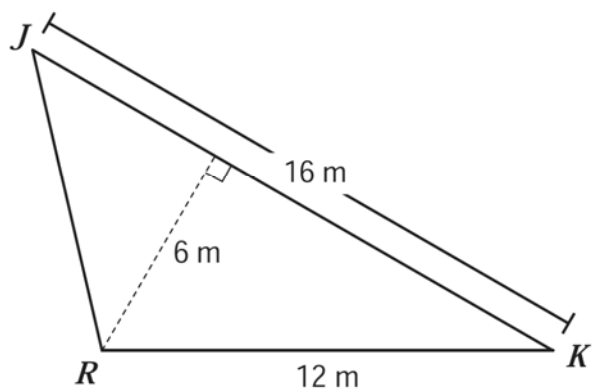
4 The diagram below shows the dimensions of a garden. Mark your answer here: 4. (A)(B)(C)(D)



In the diagram, all intersecting line segments intersect at right angles. What is the area of the garden?

- A. 1200 sq. ft.
- B. 1300 sq. ft.
- C. 1500 sq. ft.
- D. 1800 sq. ft.

5 Yoshi is designing a monument that has a triangular base. He drew $\triangle JKR$ to represent the base of the monument, as shown in the diagram below.



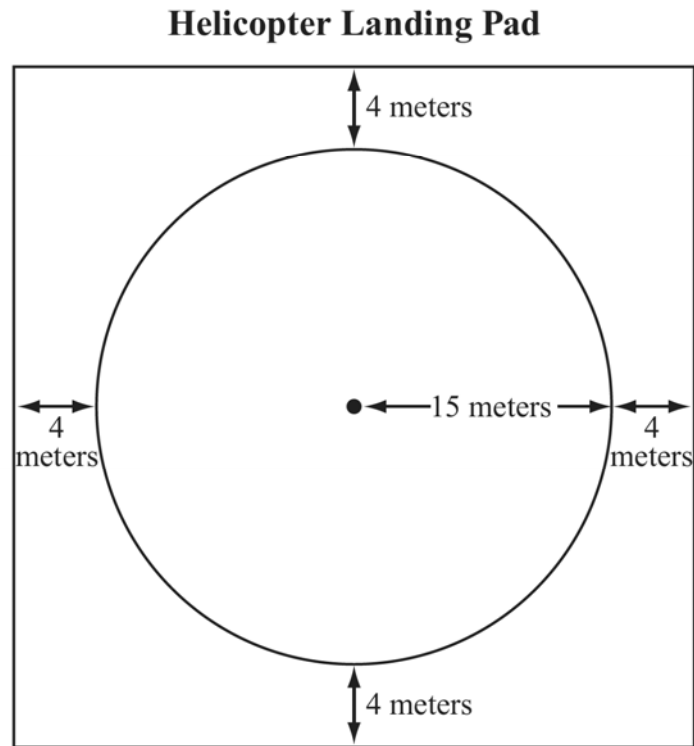
Based on the measurements in the diagram, what is the area, in square meters, of $\triangle JKR$?

Write your answer here:



Directions: For the problem below, use a separate piece of paper to write your answers. Your teacher will not count anything you write on this page.

- 6 A helicopter landing pad is in the shape of a square and has a circle painted in its center. The radius of the circle is 15 meters. The shortest distance from each side of the landing pad to the circle is 4 meters, as shown below.



- a. What is the circumference, in meters, of the circle? Show your work.
- b. What is the perimeter, in meters, of the landing pad? Show your work.
- c. What is the area, in square meters, of the circle? Show your work.
- d. What is the area, in square meters, of the part of the landing pad that is **outside** the circle? Show your work.

