

AREA EXERCISES - 1

Match each geometric figure to the formula you would use to find the area of that figure.

_____ 1) Area of a rectangle

A) s^2

_____ 2) Area of a circle

B) $\frac{1}{2}bh$

_____ 3) Area of a triangle

C) πr^2

_____ 4) Area of a square

D) lw

Solve the following problems.

- 5) Joe wants to use the corner of his backyard to plant a flower garden. If the inside edge of the triangle it creates is 12 feet long and is 7 feet out from the corner, how many square feet of ground will he have to plant?
- 6) Find the length of one side of a square which has an area of 42.25 square inches.
- 7) Find the diameter of a circle with an area of 225π square meters.
- 8) Mr. Shoemaker has a field 72.5 rods long and 48.8 rods wide. What is the area of his field?
- 10) A phonograph record has a diameter of 12 inches. What is the area of one side of the record? (Use $\pi = 3.14$)

1) D
2) C

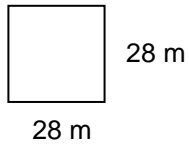
3) B
4) A

5) 42 sq. ft.

6) 6.5 in.
7) 30 meters

8) 3538 sq. rods
9) 113.04 sq. in.

- 11) Find the area of the following figure.

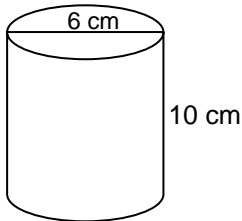


- 12) What is the area of a triangle with a base of 9 cm and an altitude of 19 cm?

- 13) What is the area of a circular skating rink which has a diameter of 84 feet?

- 14) How many square feet are there in a floor 12' 6" by 8'?

- 15) Find the area of the top of the cylinder pictured below.

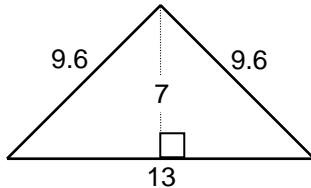


- 16) How many *square yards* of carpet is needed for a room 12 ft. by 15 ft.?

- 17) Each student in an art class needed a triangular piece of cardboard with a base of 12 inches and an altitude of 16 inches. How many square inches of cardboard did the class need if there are 24 students?

- 18) The city laid a new sidewalk in front of the library. It was 6 feet wide and 144 feet long. It costs \$3.75 a square yard. What was the total cost of laying the walk?

- 19) What is the area of this triangle?



- 20) What is the area of the top of an oil drum 4 ft. tall and $2\frac{1}{2}$ ft. in diameter?

11) 784 sq. m
12) 85.5 sq. cm

13) 5539 sq. ft.
14) 100 sq. ft.

15) 28.26 sq. cm
16) 20 sq. yds.

17) 2304 sq. in.
18) \$360.00

19) 45.5 sq. units
20) 4.91 sq. ft.