

Finding The Area Of A Circle Using Its Diameter

Tips to find the *area of a circle* from its diameter

This worksheet is to learn and practice finding **area of a circle** when we are given with its diameter. First problem is done for you as an example and you need to follow it to finish rest of the problems in this worksheet. Do all the problems yourself and we guarantee you that you'll become an area of a circle pro.

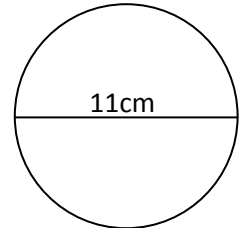
1) Find the area of the circle given at the right side.

Solution: Given diameter of the circle $d = 11\text{cm}$

$$\text{Area of the circle } A = \pi d^2 \div 4$$

$$A = 3.14 \times 11^2 \div 4$$

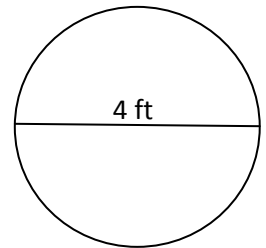
$$A = 94.99\text{cm}^2$$



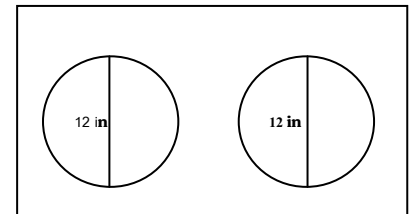
Hence the area of the given circle is 94.99cm^2

Remember the value of $\pi(\text{pi}) = 3.14$

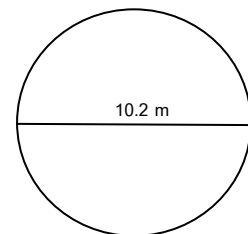
2) Calculate the area of the circle given below:



3) Calculate the area of two circular windows in the wall.



4) Find the area of the circle given in the picture.



5) The diameter of a larger circle is 5 inches and that of a smaller circle is 3.2 inches. Find the difference between the areas of both circles.