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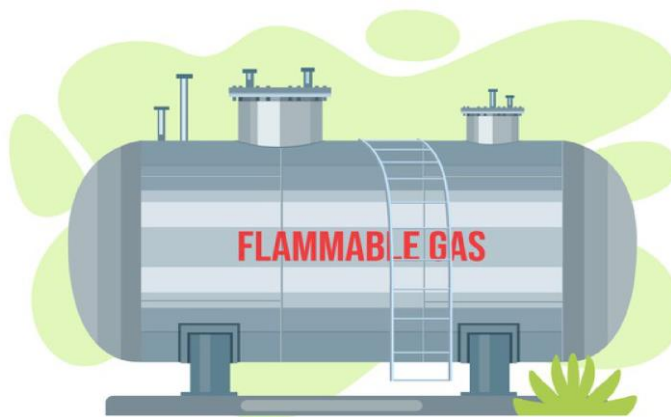
## **SURFACE AREA OF CYLINDERS WORKSHEETS**

- 1) What is the formula for the surface area of a cylinder?
- 2) A cylinder has its length and radius as 7 inches and 4 inches respectively. Its surface area is \_\_\_\_\_.
- 3) What formula can be used to find the surface area of a cylinder?
  - a)  $2r(h+r)$
  - b)  $2\pi r(h+r)$
  - c)  $\frac{1}{2}\pi r(h+r)$
  - d)  $2\pi hr$
- 4) What is the surface area of a cylinder with radius= 4 and height = 12 inches?
  - a) 100.12 sq inch
  - a. 402.12 sq inch
  - b. 300.23 sq inch
  - c. 450.23 sq inch
- 5) The height and radius of a cylinder are 7 inches and 2 inches respectively. Find its surface area.
  - a) 113.1 sq inch
  - b) 114.1 sq inch
  - c) 115.1 sq inch
  - d) 116.1 sq inch
- 6) Find the surface area of a beaker whose dimensions are as:  $l = 3$  units and  $h = 8$  units.



7) Determine the surface area of a cylindrical Test tube with a height of 20 units and a radius of 5 units?

8) A tank is in the shape of a cylinder with  $h = 15$  ft and  $d = 11$  ft. The curved wall of the tank is to be painted. Find the surface area to be painted.



9) The height and length of a cylinder are 14 inches and 7 inches respectively. Find its curved surface area. (Hint: curved surface area = that area which is curved and not flat)

10) A well is in the form of a cylinder with a radius of 3 feet. It contains water up to a height of 6 feet from the base. Find the wetted surface area of the well. (Hint: wetted surface area = surface which is in contact with water)

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$2\pi r(h+r)$
2)	276.46 sq inch
3)	b) $2\pi r(h+r)$
4)	b) 402.12 sq inch
5)	113.1 sq inch
6)	207.3 sq. units
7)	785.4 sq.units
8)	518.4 sq.ft
9)	615.75 sq. in
10)	141.4 sq.ft

## FUN FACT

1. On dividing a number with 1, the result is the same number.
2. On dividing a number with 0, the result is not defined.
3. The same number divided by itself, the result is 1.

