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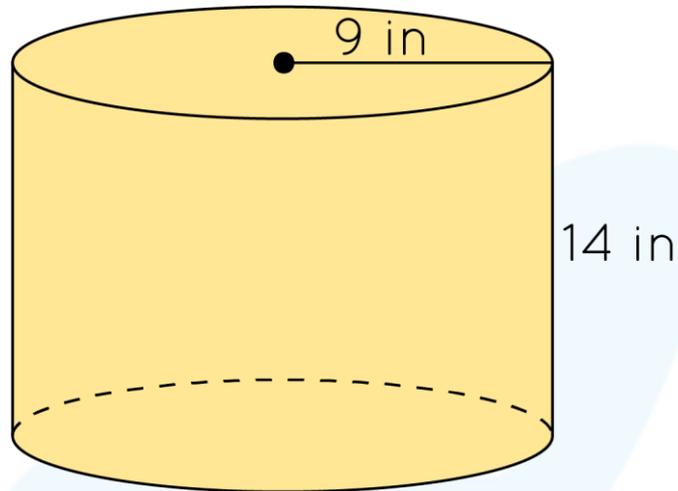
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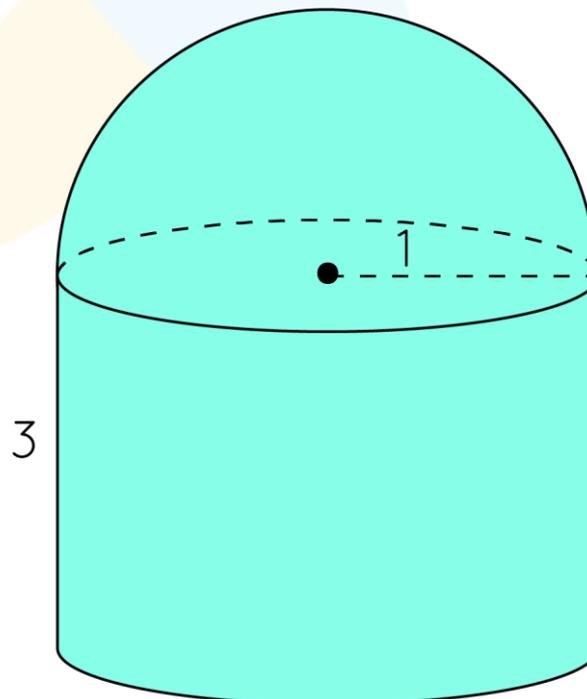
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Area of Composite Figures Worksheets 7th Grade

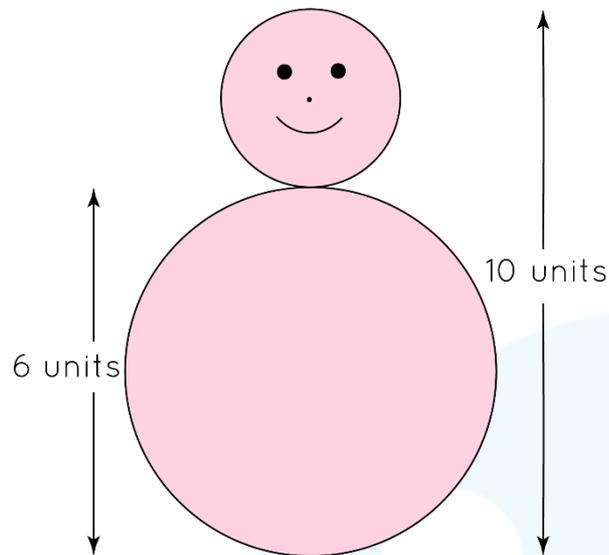
1) Find the surface area of the given shape:



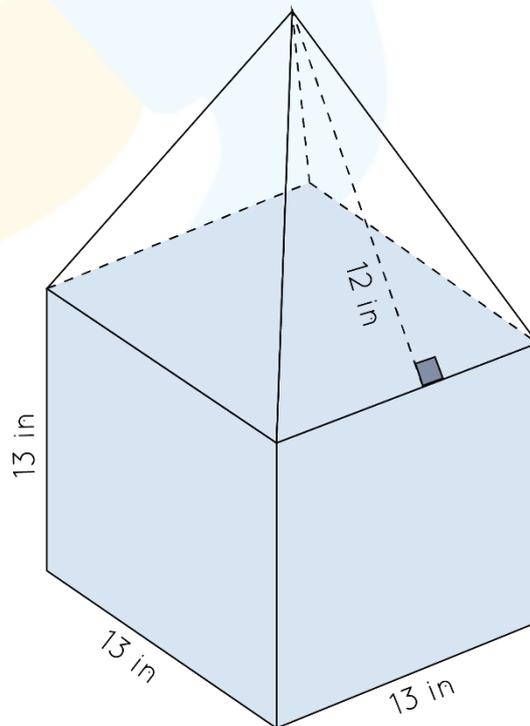
2) Emma wants to wrap a toy gift paper. Calculate the surface area of a toy if its dimensions are in inches.



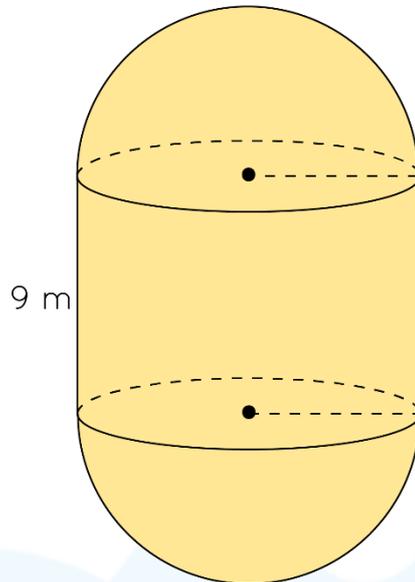
3) Find the surface area of the following composite shape made up of two spheres.



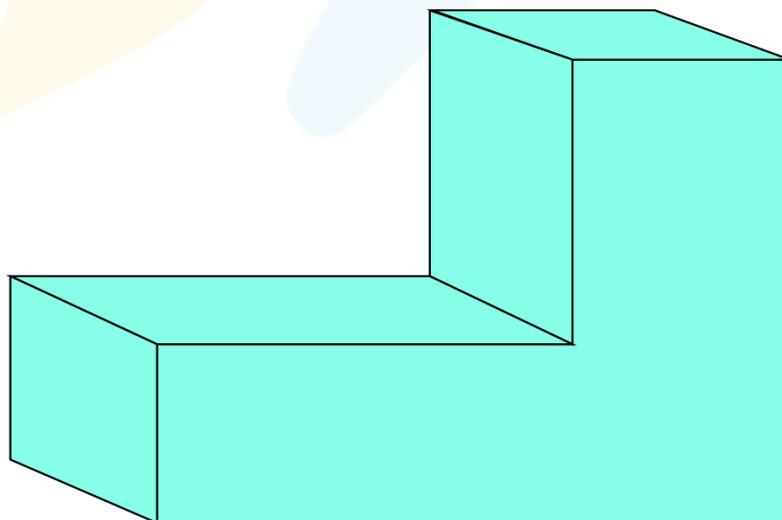
4) Mason constructs a tent in his backyard. The shape and dimension of the tent are given in the following figure. Calculate the surface area.



- 5) Find the surface area of a given figure, if the radius of the cylinder is 3m.

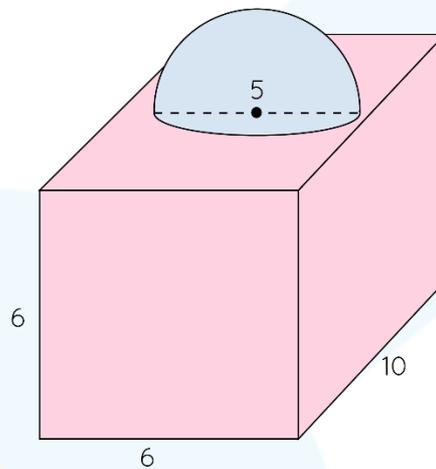


- 6) Determine the number of tiles required to cover the surface area of the steps of a stair given in L shape. If the surface area of the steps of a stair is 600 square feet and the area of one tile is 2 square feet.



- 7) What is the surface area of the cylinder having a hemisphere mounted on its one face? If the surface area of the cylinder and hemisphere is 600 in^2 , 300 in^2 respectively. Also given that the circular base area of a cylinder is 100 in^2 .

- 8) Jacob wants to paint his toy which is given in the figure below. Find the surface area of a toy for painting if its dimensions are in inches.



- 9) Three cuboids are placed together to form a big cube. Find the total surface area of the new cube having a side of 6 units.
- 10) There are three cubes whose dimensions are given
 Cube A: $L=23 \text{ m}$.
 Cube B: $L=30 \text{ m}$.
 Cube B: $L=20 \text{ m}$.
 Which box is having more surface area?

- a) **Cuboid A**
 b) **Cuboid B**
 c) **Both**
 d) None of the above

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**ANSWERS**

1)	1300.61 square in.
2)	567 square units
3)	$60ft^2$
4)	$1,157 in^2$
5)	$282.6m^2$
6)	300.

7)	800 in^2
8)	331.63 in^2
9)	216 units^2
10)	b) <i>Cube B</i>

FUN FACT

1. In the 7th century CE, Brahmagupta developed a formula, now known as Brahmagupta's formula, for the area of a cyclic [quadrilateral](#)
2. The formula to calculate the area of a [triangle](#) using half base height formula was given by the Indian mathematician Aryabhata in 499.

