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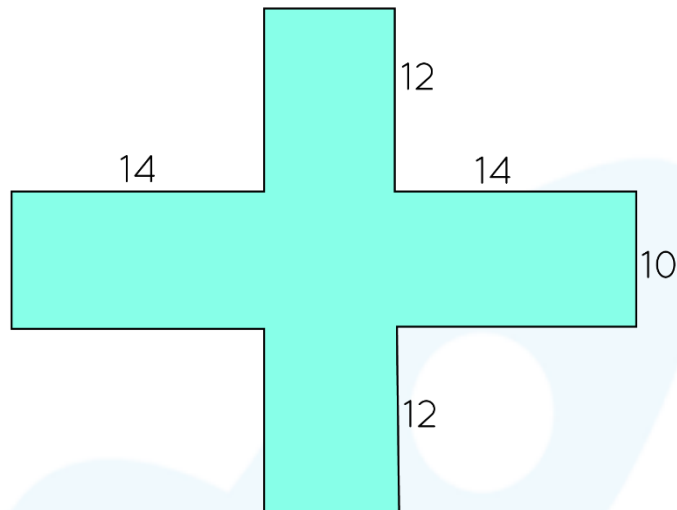
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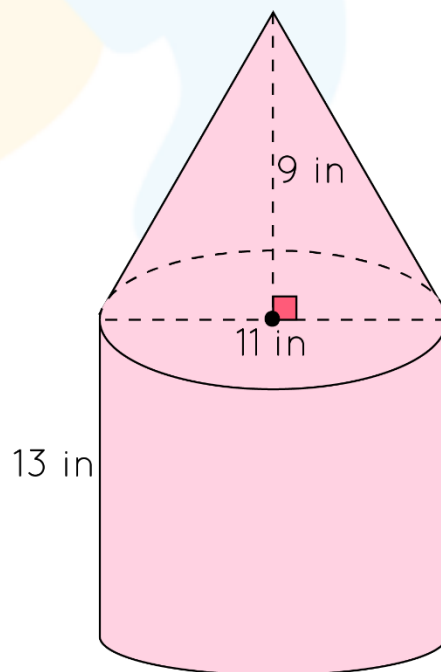
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## Surface Area of composite figures Worksheet

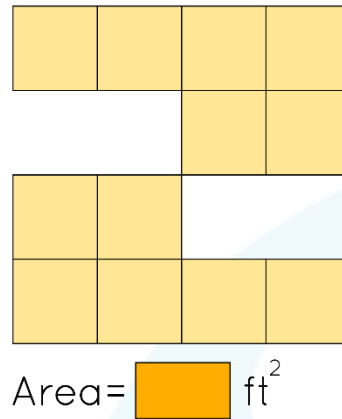
1) Find the surface area of the given shape:



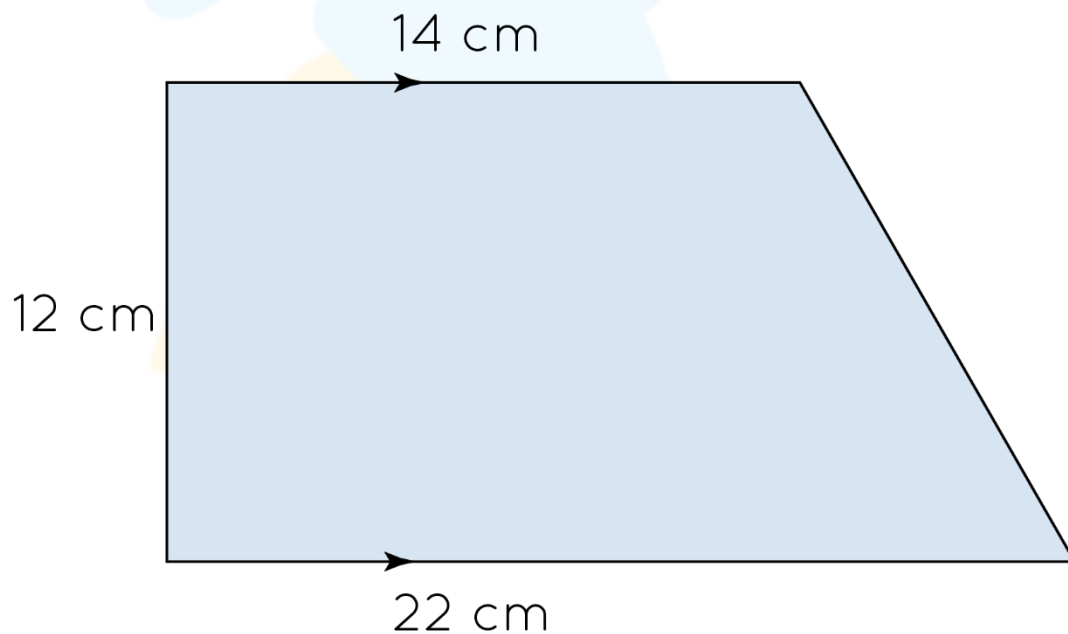
2) Shane works in a carpenter workshop. He created the following shape and wants to find the surface area of the shape. Calculate the surface area in square inches.



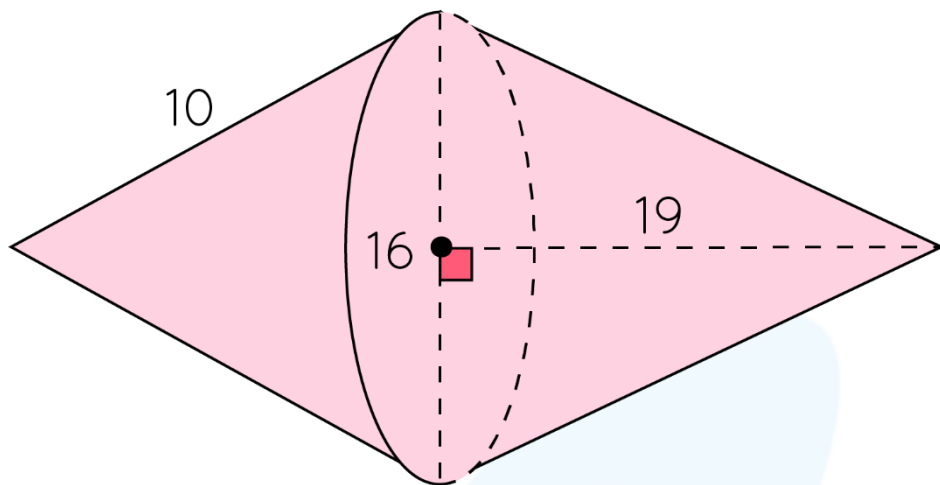
- 3) Find the surface area of the following composite shape if the surface area of 1 block is  $5 \text{ ft}^2$ .



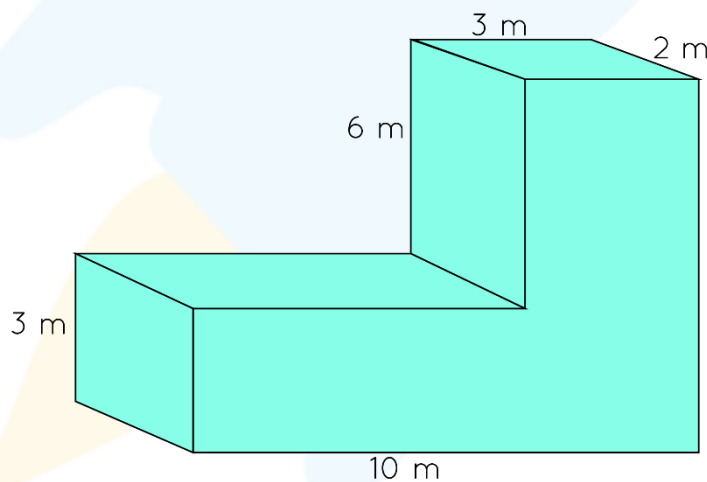
- 4) Smith constructs a swimming pool in his backyard. The shape and dimension of the pool is given in the following figure. Calculate the area of the water surface.



- 5) Find the surface area of a given figure, if the dimensions of the 3-d object is in inches.

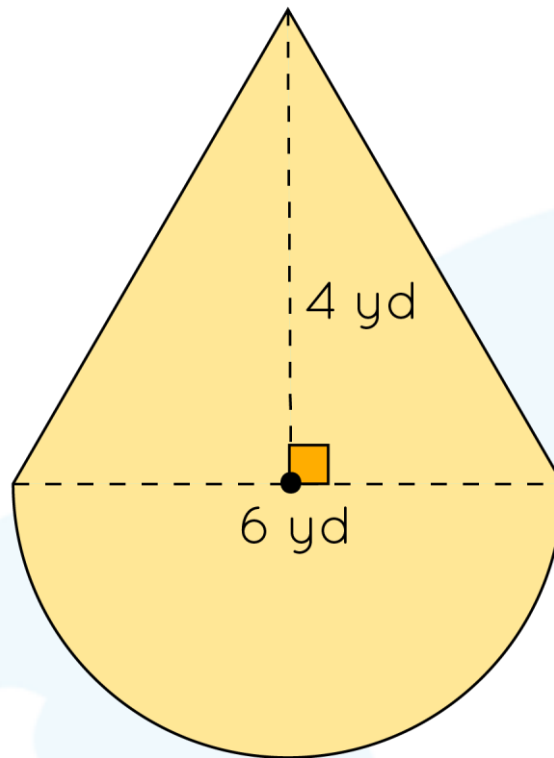


- 6) Determine the surface area of a stairs steps the expression to calculate the area of the given L shape.



- 7) What is the total surface area of the cylinder having a hemisphere mounted on its both face. If surface area of cylinder and hemisphere is  $400 \text{ in}^2$ ,  $200 \text{ in}^2$  respectively. Also given that the circular base area of a cylinde is  $50 \text{ in}^2$ .

- 8) Sam wants to paint his toy which is made up of a cone and hemisphere. Find the surface area of a toy for painting.



- 9) Three cubes are placed together having edge of 2 m long. Find the total surface area of the new cuboid.
- 10) There are two cuboids whose dimensions are given Cuboid A:  $L=23$  units,  $B=30$  units,  $H=40$  units  
Cuboid B:  $L=30$  units,  $B=12$  units,  $H=44$  units  
Which box is having more surface area?

- a) **Cuboid A**  
b) **Cuboid b**  
c) **Both**  
d) None

of the above

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in an interesting way,  
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- Barbara Cabrera

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**ANSWERS**

1)	720 square units
2)	567 square units
3)	$60ft^2$
4)	$216\text{ cm}^2$
5)	$769.06in^2$
6)	$55 \times 55 - 22 \times 35\text{ yd}^2$

7)	$400 \text{ in}^2$
8)	$138 \text{ in}^2$
9)	$56 \text{ m}^2$
10)	a) <i>Cuboid A</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.

