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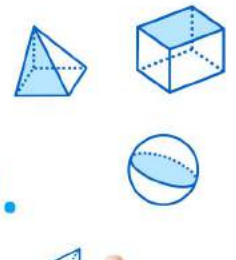

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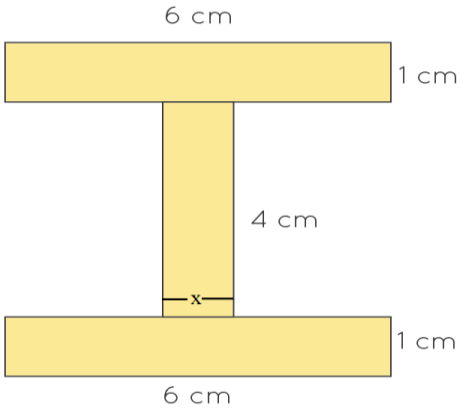
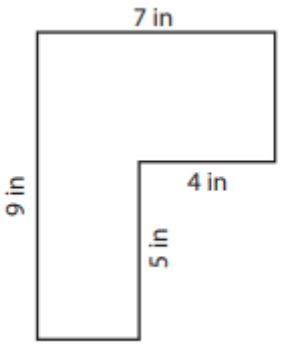
AREA OF COMPOSITE SHAPES WORKSHEETS

1) Find the value of x in the given figure, if its area is 14 cm^2.

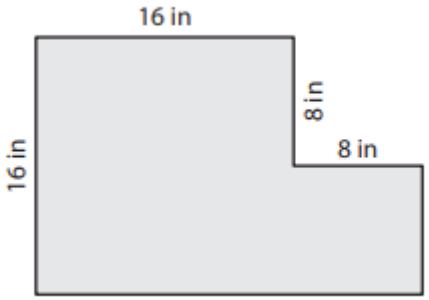


2) State whether true or false:

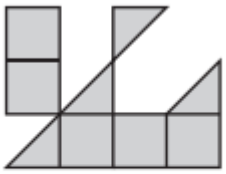
The area of the given compound shape is equal to $43in^2$



3) John constructed a garden of the following given shape and dimensions in his backyard. Calculate its area.

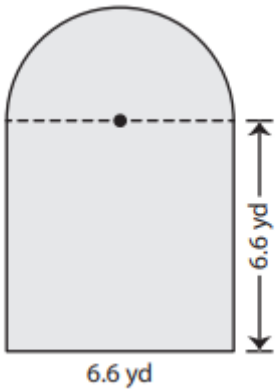


4) Find the area of the following composite shape if the area of 1 block is $3ft^2$.



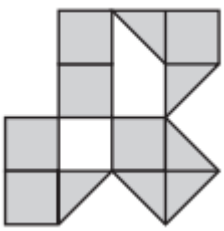
Area = ____ ft^2

5) Noah 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.

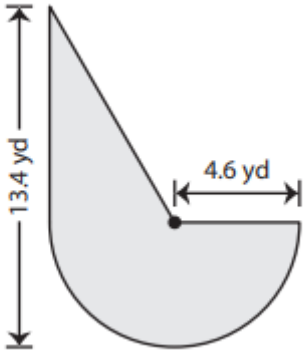


6) State whether true or false:
The area of a rhombus with each side 5 units is equal to that of a square with same side length.

7) Choose the correct option for the area of the given shape if 1 block = 1 ft^2.

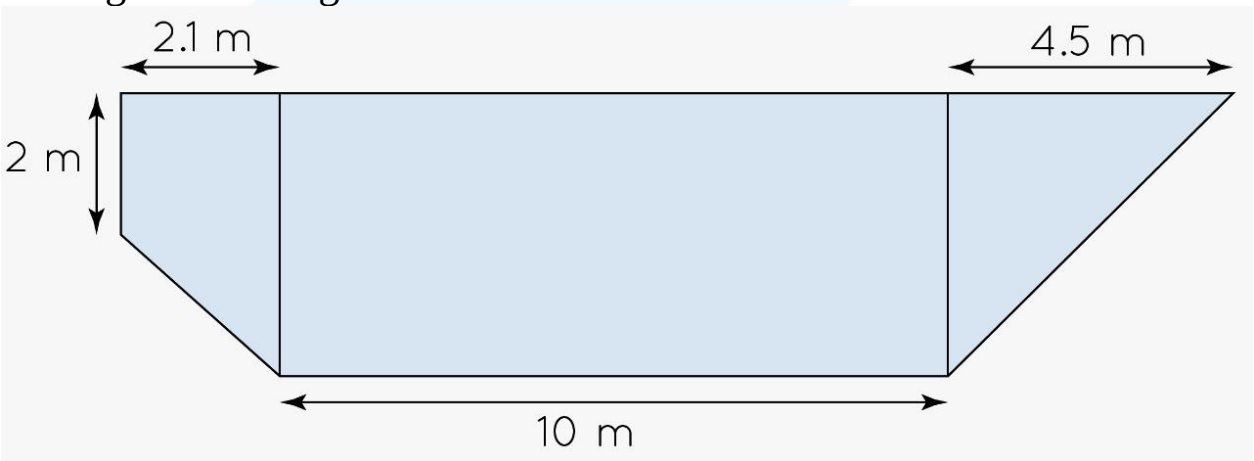


8) Find the area of the shaded region in square units



9) A circle of radius 7 is cut out from the center of a square with each side measuring 21 in. Find the area of the resultant shape.

10) The cross section of a river is given below. Calculate the surface area, considering the comprising shapes to be trapezium, rectangle and triangle.



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ANSWERS

1)	1 cm
2)	True
3)	$320in^2$
4)	21 ft^2
5)	60.66 yd^2
6)	True

7)	9 ft^2
8)	53.46 yd^2
9)	287 in^2
10)	55.3 m^2

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.
3. Four dimensional shapes made of polygons are called polychorons , and shapes made of polygons of any dimension are polytopes.