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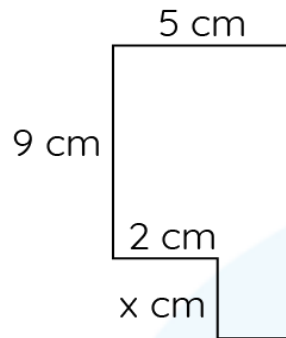
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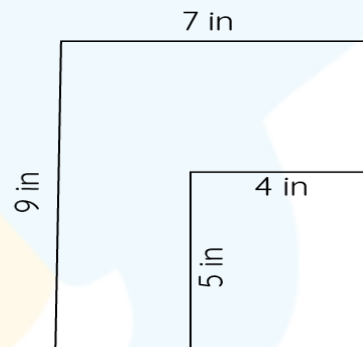
## Compound Shapes Worksheets

1) Find the value of  $x$  in the given figure, if its area is 54

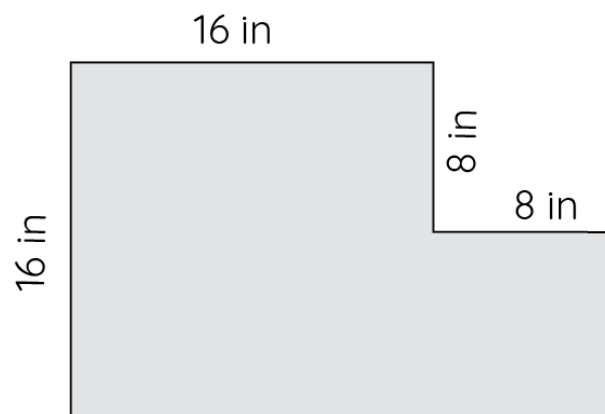


2) State whether true or false:

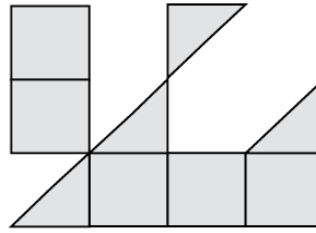
The perimeter of the given compound shape is equal to 32 in.



3) John constructed a garden of the following given shape and dimensions in his backyard. Represent the compound shape as a combination of 2 squares.

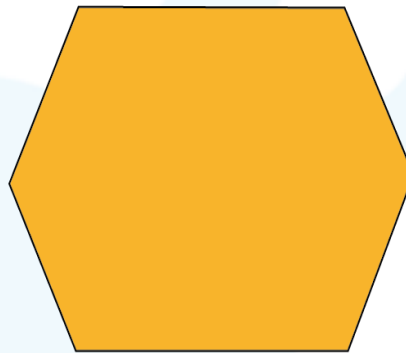


- 4) Find the area of the following composite shape if the area of 1 block is  $2\text{ft}^2$ .

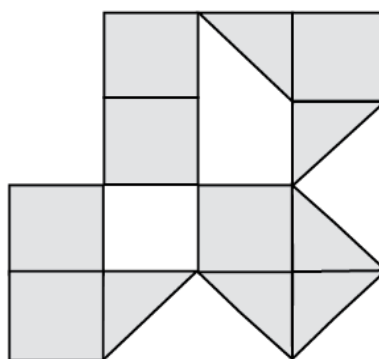


Area =   $\text{ft}^2$

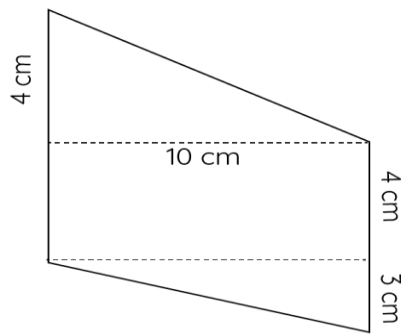
- 5) The number of pairs of parallel line in the given shape is \_\_\_\_.



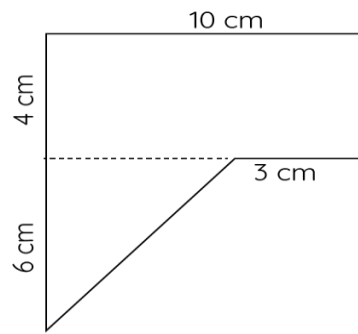
- 6) State whether true or false:  
The area of a rhombus with each side 5 units is equal to that of a square with same side length.
- 7) Choose the correct option for the area of the given shape if 1 block =  $1\text{ft}^2$ .



8) Compare the area of the following compound shapes.

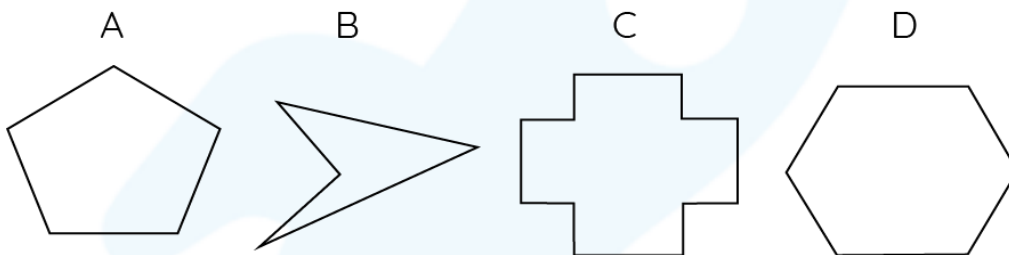


(A)

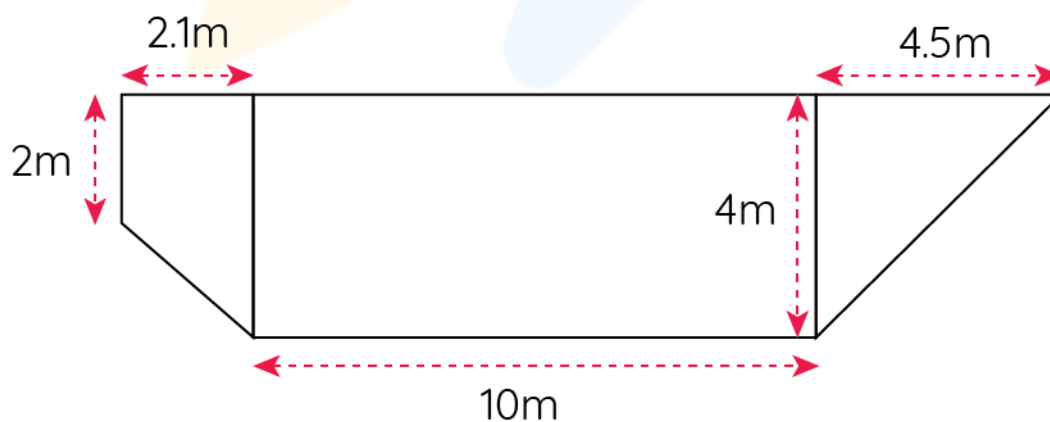


(B)

9) Which of the following shapes have perpendicular lines?



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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- Gary Schwartz

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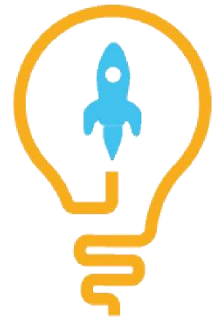
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- Barbara Cabrera

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**ANSWERS**

1)	3 cm
2)	True
3)	The given compound shape can be drawn as combination of 2 squares of side 16 in and 8 in respectively.
4)	14
5)	3
6)	True
7)	$9 \text{ ft}^2$
8)	Area of A > Area of B
9)	C
10)	$55.3 \text{ m}^2$

## FUN FACT

1. To find the area of a compound shape, break the shape into simpler shapes and calculate their collective area.
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.

