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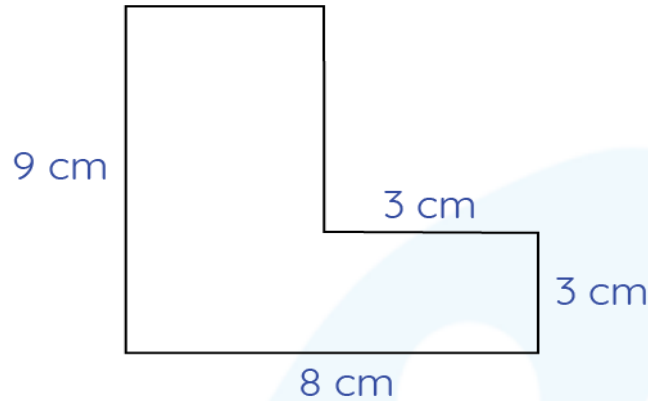
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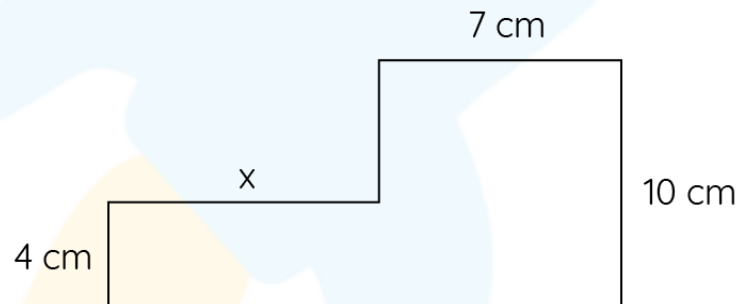
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Area Of Compound Shapes Worksheets
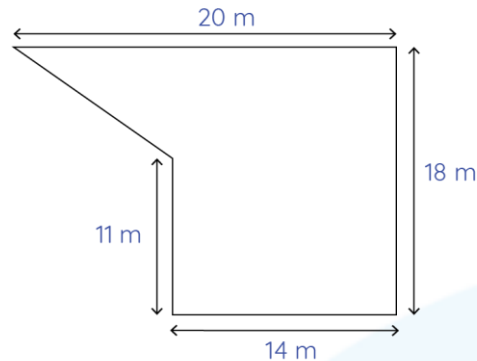
1) Calculate the area of the given shape.

9 cm

3 cm

3 cm

8 cm

2) The area of the given shape is 106 square units. Find the value of x.
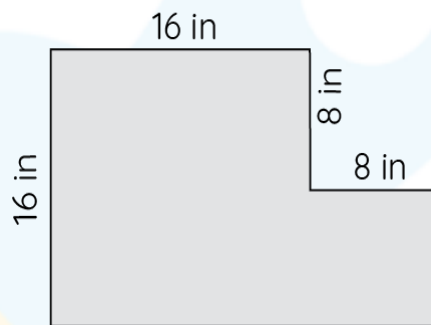
7 cm

x

10 cm

4 cm

3) The following figure is made from 5 identical squares. Calculate the value of y if the area of the shape is 180 square units.
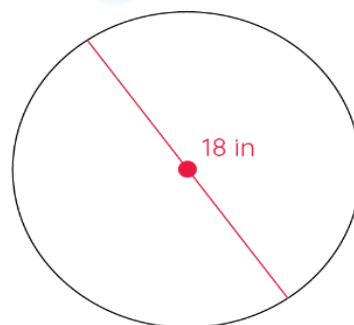
y

4) James is preparing a small field for chickens in his farm. The shape of the field is as shown below. Each chicken needs 3 square units of space. Find the number of chickens James can keep.

20 m

18 m

11 m

14 m

5) Angela bought a piece of land of the shape and dimensions given below. Calculate the money she paid for it if the land costs $17,000 per square in.

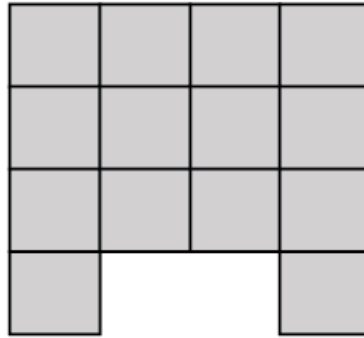

16 in

8 in

8 in

16 in

6) State whether true or false:
The area of a square must be 64 if it has a side length of 8.

7) The area of the given circle is:

18 in

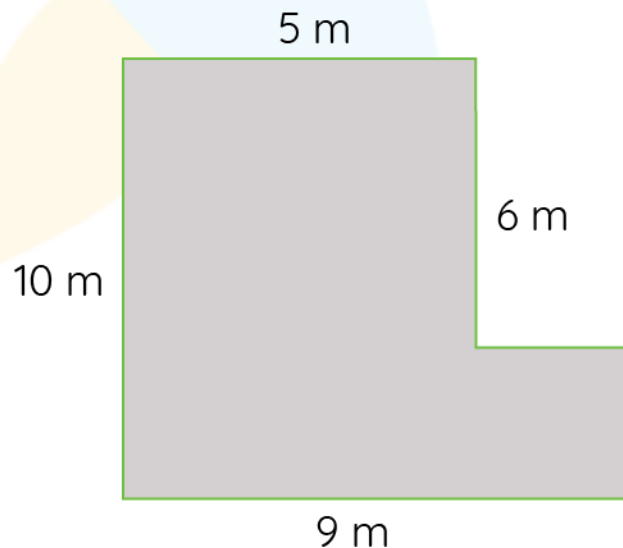a) 254.47 in^2
b) 254.74 in^2
c) 245.47 in^2
d) 245.74 in^2

8) Find the area of the shaded region if the area of each block is $1\,ft^2$.

Area = ⟨_____⟩ ft²

9) A rectangle has length and breadth measuring 7 units and 9 units respectively. Find the area of the compound shape after removing a square with each side measuring 4 units from the center.

10) Which of the following calculations is correct for the area of the given shape.

5 m

6 m

10 m

9 m

a) $10 \times 6 + 5 \times 4$
b) $10 \times 5 + 9 \times 6$
c) $9 \times 10 - 6 \times 4$
d) All are correct

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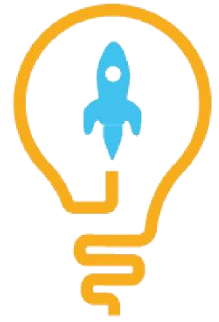
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- Gary Schwartz

- Kirk Riley

- Barbara Cabrera

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ANSWERS

1)	54 cm^2
2)	9 cm
3)	6 units
4)	91 chickens
5)	$5,440,000
6)	True
7)	a)
8)	14
9)	47 square units
10)	c)

1. The formula to calculate the area of a triangle using half base height formula was given by the Indian mathematician Aryabhata in 499.

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

3. In the 7th century CE, Brahmagupta developed a formula, now known as Brahmagupta's formula, for the area of a cyclic quadrilateral.