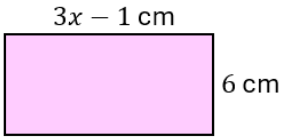
Crack the Code — Forming and Solving Equations

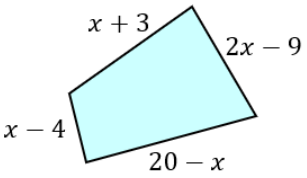
A

The area is $138\ \text{cm}^2$

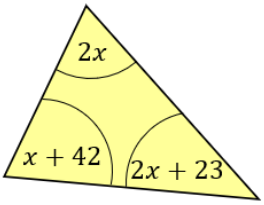


B

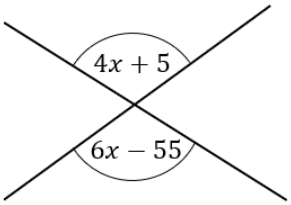
The perimeter is $43\ \text{cm}$. All lengths are in cm.



C

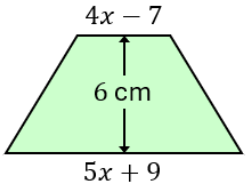


D



E

The area is $343.5\ \text{cm}^2$. All lengths are in cm.

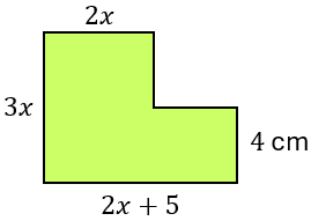


F

A cuboid has dimensions of 5 cm, 3.6 cm and $(5 + 3x)$ cm. The volume of the cuboid is $846\ \text{cm}^3$.

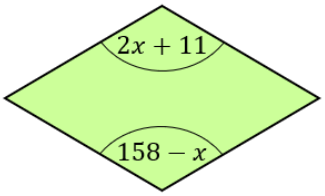
G

The area is $236\ \text{cm}^2$. All lengths are in cm.



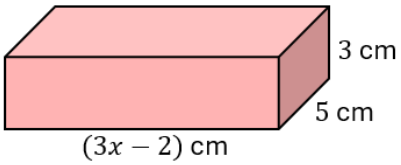
H

The shape is a rhombus.



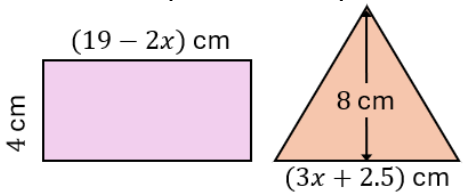
I

The total surface area is $343.6\ \text{cm}^2$.



J

The two shapes have equal areas.

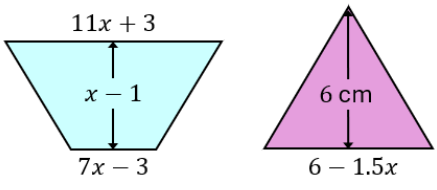


K

Here are four numbers:
x, $x + 2$, $x + 7$ and 170.
The mean of the four numbers is twice the mean of the first three numbers.

L

The area of the trapezium is twice the area of the triangle. All lengths are in cm.



In each question, form and solve an equation in x. To get the three-digit code, add all your solutions together.