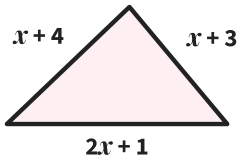
Forming and solving equations: perimeter

1

The perimeter of this triangle is 32 cm.
Form an equation and solve it to find x.



Add every side. The total is the perimeter.

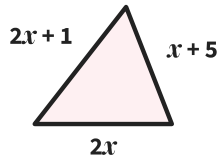
$2x + 1 + x + 3 + x + 4 = 32$

$4x + 8 = 32$

$x =$ _____

2

The perimeter of this triangle is 36 cm.
Form an equation and solve it to find x.

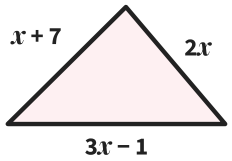


$2x + x + 5 + 2x + 1 = 36$

$x =$ _____

3

The perimeter of this triangle is 42 cm.
Form an equation and solve it to find x.

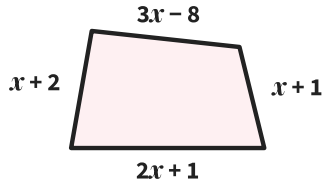


$= 42$

$x =$ _____

4

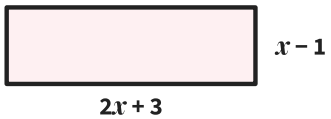
The perimeter of this quadrilateral is 38 cm. Form an equation and solve it to find x.



$x =$ _____

5 *Notice the change!*

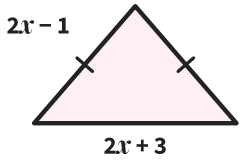
The perimeter of this rectangle is 34 cm.
Form an equation and solve it to find x.



$x =$ _____

6

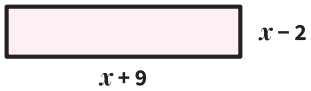
The perimeter of this isosceles triangle is 43 cm. Form an equation and solve it to find x.



$x =$ _____

7

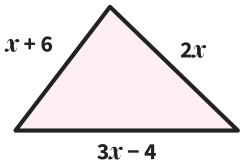
The perimeter of this rectangle is 34 cm.
Kai writes $x + 9 + x - 2 = 34$.
Explain his mistake. Then find x.



$x =$ _____

8

The perimeter of this triangle is 50 cm.
Find the length of the longest side.

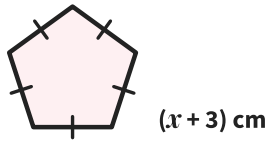


Longest side _____

Forming and solving equations: perimeter *further practice*

9

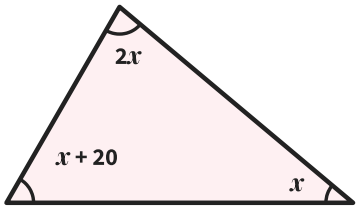
This regular pentagon has a perimeter of 40 cm. Find x.



$x =$ _____

10

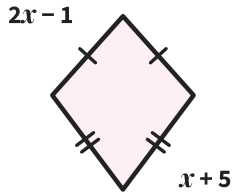
Angles in a triangle add to 180°. Find x.



$x =$ _____

11

The perimeter of this kite is 38 cm. Find the length of its longest side.



Answer _____

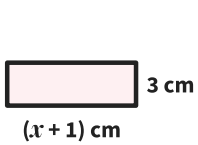
12

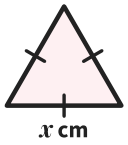
A rectangular photo frame is 8 cm longer than it is wide. Its perimeter is 64 cm. Find its width and its length.

Answer _____

13

The rectangle and the equilateral triangle have the same perimeter. Find x.

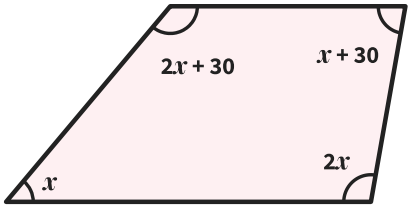




$x =$ _____

14

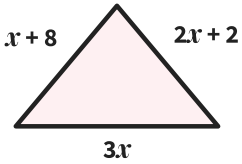
Angles in a quadrilateral add to 360°. Find the largest angle.



Answer _____

15

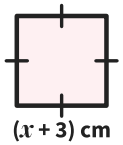
The perimeter of this triangle is 46 cm. Show that the triangle is isosceles.

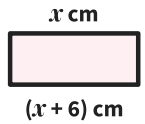


Answer _____

16

Ella says the square and the rectangle have the same perimeter, so she can find x. Explain why she cannot.





Answer _____