

Mathematics

# **Solving linear simultaneous equations graphically**

Reviewing solving equations

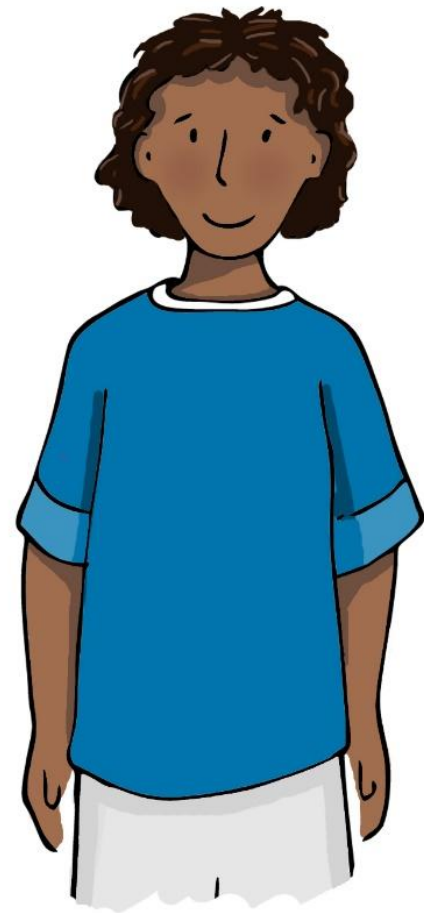
## Independent Task

Ms Jones



# Try this

What number could Zaki be thinking of?



If I subtract double my number from 15,  
I get the same as when I add five to  
triple my number then divide by 2.



# Pause the video to complete your task



Resume once you're finished

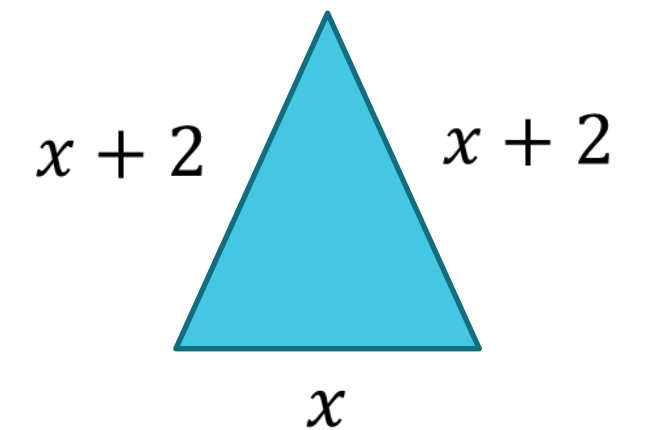
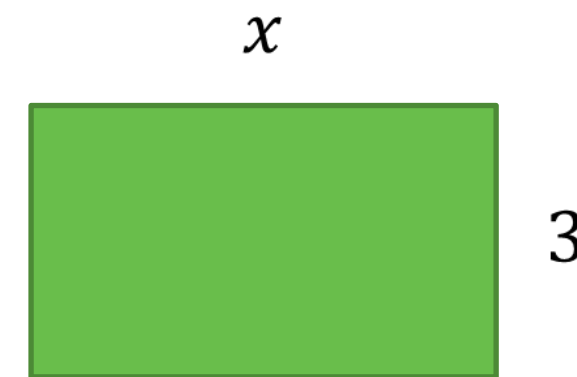


# Independent task

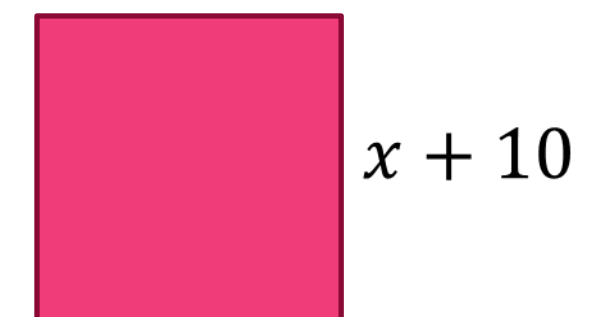
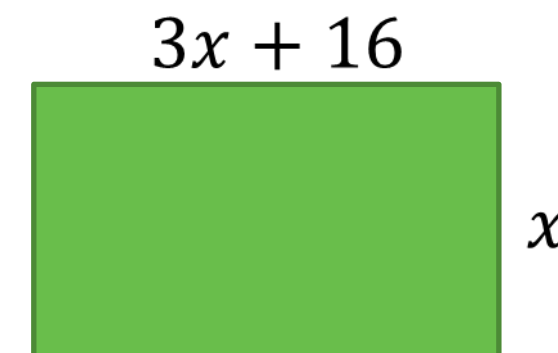
1. Form and solve equations to help you answer the following:
  - a) If I subtract my number from 3 I get the same as dividing my number by 2.
  - b) If I sum double my number and 8 I get the same as multiplying my number subtract 2 by 3.
  - c) If I multiply my number by 5, I get the same as when I add 4 to triple my number then divide by 2.

2. Form and solve equations to find the answer to the following

- a) The triangle and rectangle both have the same perimeter. Find  $x$ .



- b) The square and rectangle both have the same perimeter. Find their perimeters.



# Explore

By placing the cards in the equation frame and solving, different values of  $x$  are found.

$3x$

$2x + 4$

$5x - 3$

$6 - x$

=

Which combination of cards give:

- The greatest value for  $x$
- The least value for  $x$
- The same value for  $x$

