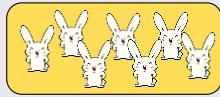


To be able to solve two-step equations



Starter:

If there are the same amount of rabbits in the yellow shape as the blue shape, if each hat is hiding the same number of rabbits, how many rabbits are hiding beneath each of the magician's hats?



Explain your answer.

To be able to solve two-step equations



Activity 1:

Use cubes and counters to help you complete the following:

$$2x + 3 = 7$$

$$3x + 2 = 14$$

$$4x + 3 = 23$$

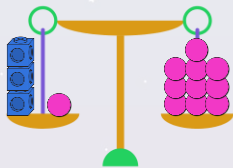


To be able to solve two-step equations



Activity 1 (continued):

Write an equation using  $x$  based on the representation below and solve it!



To be able to solve two-step equations



Activity 2:

Create bar models to help you complete the given algebraic equation.

$$31 = 3x + 7$$

To be able to solve two-step equations



Activity 2 (continued):

Create bar models to help you complete the given algebraic equation.

$$22 = 4x + 3$$

To be able to solve two-step equations



Activity 3:

Solve the following equations:

$$5x - 3 = 27$$

$$7x + 17 = 3$$

$$92 = 10x - 7$$

To be able to solve two-step equations



#### Activity 4:

Ahmed thinks of a number.  
He quadruples it, then subtracts 3.  
His answer is 33.

Write an equation that represents Ahmed's thinking, then solve it to find his number.

To be able to solve two-step equations



#### Activity 5:

Bread in a French restaurant costs  $f$ .  
A bowl of soup costs  $f + 7$ .  
The total cost of bread and a bowl of soup is €12.  
How much does a portion of bread cost? And a bowl of soup?

A portion of bread costs €\_\_.

A bowl of soup costs  $7 + 2.5 =$  €\_\_.

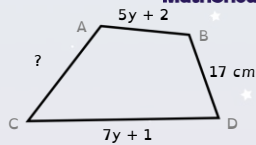
To be able to solve two-step equations



#### Activity 5:

Here is the quadrilateral ABCD.  
It has a total perimeter of 75 cm.  
AB has the same length as BD.

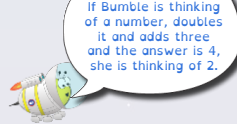
Find the length of AC in cm.  
Write an expression for its length too.



To be able to solve two-step equations



#### Evaluation:



If Bumble is thinking of a number, doubles it and adds three and the answer is 4, she is thinking of 2.

Do you agree?  
Explain your answer.