

Maths – To solve two-step equations

1. $2c + 6 = 30$

Work out the value of c .

2. $4u - 5 = 27$

Work out the value of u .

3. $9m + 12 = 66$

Work out the value of m .

4. $5x + 20 = 35$

Work out the value of x .

5. $16 - k = 5$

Work out the value of k .

6. $2u - 9 = 6$

Work out the value of u .

Challenge

9. Tiles cost £6 per square metre and there is an £8 delivery charge.

A tiler calculates the price of tiles using the following formula:

$$\text{cost} = 6a + 8$$

a = area

a) Calculate the cost of tiles covering 7m^2 . £

b) The tiler spends £98 on tiles. What area will the tiles cover? m^2



10. A plumber charges £15 for a call-out and then £12 per hour of work.

She calculates the cost to the customer using the following formula:

$$\text{cost} = 12h + 15$$

h = number of hours worked

a) Calculate the cost of 3 hours work. £

b) If the plumber charges £99 for a job, hours



Art – To create my own Graffiti Art

Graffiti is defined as writing or drawing that is scribbled, sprayed or scratched on a wall or other public space. There is evidence of wall drawings dating back thousands of years but modern graffiti started in the 1960s, in America. Creating this type of street art without permission is against the law and some people see it as a nuisance. However, others view it as an expressive art form and some countries have designated sites where graffiti artists may display their work.

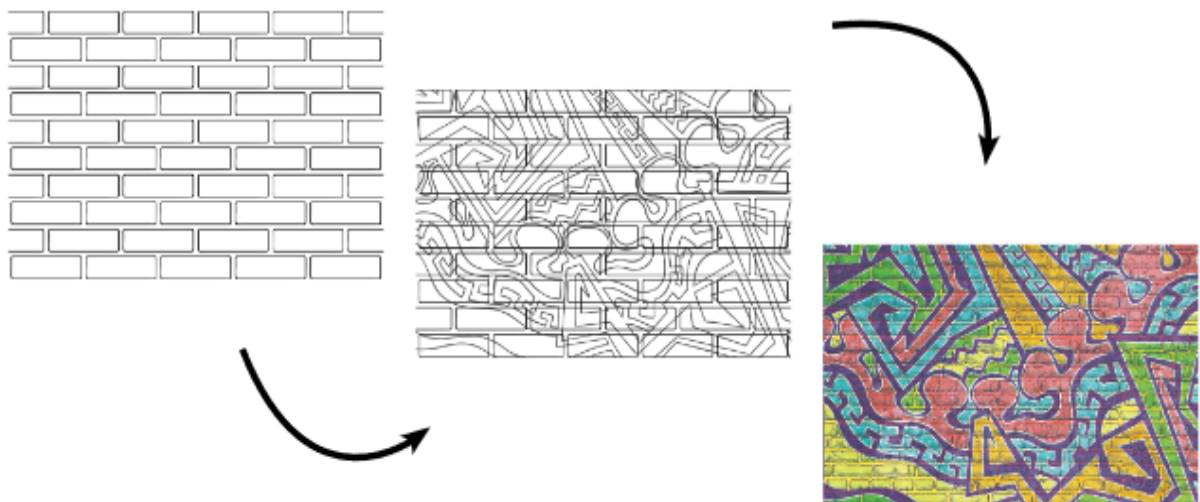
Graffiti can include the use of symbols, words and names. It can also incorporate striking patterns and images of people or characters. Create your own example of graffiti art, using the images on the second page for inspiration.

To make your own example of graffiti art, you will need:

- brick wall template
- pencil
- colouring pencils, felt-tip pens, crayons or chalks (to add colour to your design)

What to do:



1. Decide what your graffiti is going to include. It could be a pattern, a picture of a person or character, a word or perhaps your name.
2. Lightly draw your design with a pencil.
3. Choose a medium to work with and add colour to your design.





If you are finding it tricky to know how to begin, try placing your pencil at a random point on the page and taking it for a walk around the sheet to help you get your pattern started (imagining it going round corners and over hills). Also, you could experiment with different types of lines and shapes when adding detail to your work.

- horizontal 
- vertical 
- diagonal 
- straight lines 

- spiral 
- wavy 
- zigzag 
- arches 