

Calculating the cost of graffiti artwork

Group challenge: Approximately how much would it cost to paint the largest art work on the 'Duke of Lancaster' ship?

Making art costs money. In your group, use the information below to help you work out the costs of painting the largest piece of artwork on the ship.

- An average 11 fluid ounce can of spray paint covers an area of between 10-12 square feet.
- The cheapest good quality spray paint available online is £6.70 a can. However, there is a special offer on which means that if you buy 9 cans, the 10th can is free. Each can contains 400ml of paint.
- The largest art work on the 'Duke of Lancaster' ship measures 18m x 13m. How much would it cost to paint?

What calculations do you need to make in order to arrive at the cost of this work? (*Clue: the measurements need converting between imperial and metric to complete the calculations. Write out the steps needed for this calculation below before you start*).

We predict that it will cost approximately £_____ to create the artwork.

The question asks for an approximate answer because