

## Activity:

The aim of this activity is for children to practise solving ratio and proportion problems. There are three questions to complete. The first two questions allow children to practise the skill, while the third question extends them as they have to problem solve and explain their answer.

## Vocabulary:

**Ratio** shows the relationship between two values and can describe how one is related to another. A colon (:) is used to show that 'for every..., there are...' For example, if there are 2 stars for every 3 squares, the ratio would be 2 : 3.

We use the term **Scale factor** when enlarging the size of a 2D shape. For example, if a rectangle has the measurements 4cm and 3cm and it is enlarged by a scale factor of 2, the new measures will be 8cm and 6cm.

**Bar models** show how numbers can be split into different parts, by splitting them into bars or boxes. Bar models can be used to solve a wide variety of calculations, showing the relationship between the whole model and the parts.

## Supporting resources:

You can watch a video tutorial about ratio and proportion problems on [kids.classroomsecrets.co.uk](https://kids.classroomsecrets.co.uk) >> **Year 6** >> **Maths** >> **Ratio** >> **Video Tutorials**.

## Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on [classroomsecrets.co.uk/membership](https://classroomsecrets.co.uk/membership).

**Check out our daily timetable for Year 6 home learning activities on [kids.classroomsecrets.co.uk](https://kids.classroomsecrets.co.uk) >> Home Learning Timetable.**

## Ratio and Proportion Problems

1. B 9cm, C 20cm, D 40cm
2. 15 strawberries, 10 grapes
3. Harry is correct because the recipe has increased by a scale factor of 4 so there will be 12 cherries, 20 grapes and 8 bananas which is 40 pieces of fruit in total.