

Area of Maths: Multiplication and Division

Skill: Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

YOU WILL NEED...

Resources:

There are downloadable resources available to accompany this lesson.

Equipment:

Several simple recipes are required for this activity.



Instructions:

1. Tell the children they are going to hold a big dinner party and 30 people are coming – can they work out how many ingredients they will need and prepare a shopping list for their group's recipe?
2. Divide the children into 6 small groups. Tell each group which recipe they are looking for – they will be spread around the activity area.
3. Each member of the group dashes to the recipe and reads the first ingredient, and comes back and tells the rest of the team including crucially, how much is required (e.g 2 cans of tomatoes, or 300g of minced beef, etc).

This information is written down while the next ingredient is read by the next team member, and so on, until all the ingredients have been read, reported back and written down.

4. After the last ingredient has been reported to the team, the recipe is also collected and written errors rectified if necessary.
5. Each group now has to multiply the ingredients so that it will serve 30 people rather than 6.
6. As the groups near completion, ask them to check with the group next to them if they have any common ingredients, so they can work out total quantities.

Extension Ideas:



Use a large piece of paper to have a master shopping list for the whole class; check how much of every ingredient is needed.

There is an opportunity to scale down a bigger recipe for a family of 4 or 6.

Give higher ability children recipes for 4 instead of 6 (4 being more difficult to translate to 30 people).

Develop enquiries around the ratios and percentages of ingredients in different recipes or within each recipe.

