

Multiplication and Division: Word Problems

Aim: To recall and use multiplication and division facts for the 3,4 and 8 multiplication tables. I can solve word problems.	Success Criteria: R – I can read the question carefully. U – I understand what the question is asking me to do. C – I can choose the correct method. S – I can solve the problem using multiplication facts. A – I can answer the question with a number sentence. C – I check my answer.	Resources: Lesson Pack Small manipulatives
	Key/New Words: RUCSAC	Preparation: Differentiated Remember Your RUCSAC Activity Sheets - per child RUCSAC Display Resources - as required Multiplication Squares - as required

Prior Learning: It will be helpful if the children knew the multiplication and division facts for the 2x, 3x, 4x, 5x, 8x, 10x multiplication tables.

Learning Sequence

	Jack in the Box: The children sit on the floor in a circle. They count around the circle in ones starting from zero. When they hear a multiple of four they jump up. When they hear a multiple of eight (which will also be a multiple of four), they sit back down again.				
	Have You Packed Your RUCSAC? Introduce the RUCSAC method for solving problems and use it to solve examples of single and multi-step problems, selecting the problems best suited to the abilities of your class. Encourage children to use RUCSAC as a checklist. Use highlighters on paper or screen to emphasise key mathematical vocabulary and key information in the word problems. Remind children that, if they are calculating amounts of money or other measures it might be easier to convert the amount into a different unit, for example, it is easier to divide 120p by 3 than £1.20.				
	How to Check Your Work: Encourage children to use the previous learning on arrays and related facts to check their answers and emphasise the need to use the correct unit if necessary.				
	Word Problems: Children complete differentiated Remember Your RUCSAC Activity Sheets , using known facts to solve multiplication and division word problems. Distribute RUCSAC Display Resources as memory aids if required. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"> Children use known facts from the 3, 4 and 8x tables to find answers to multiplication and division word problems, before writing word problems of their own. This group could be given access to Multiplication Squares or small manipulatives for support if required. </td> <td style="width: 33%; border: none;"> Children use known facts from the 3, 4 and 8x tables to solve word problems, before writing word problems of their own. </td> <td style="width: 33%; border: none;"> Children complete mixed problems in a range of contexts which require them to use known facts from the 3, 4 and 8x tables and go beyond their known facts to solve problems and write problems of their own. </td> </tr> </table>	Children use known facts from the 3, 4 and 8x tables to find answers to multiplication and division word problems, before writing word problems of their own. This group could be given access to Multiplication Squares or small manipulatives for support if required.	Children use known facts from the 3, 4 and 8x tables to solve word problems, before writing word problems of their own.	Children complete mixed problems in a range of contexts which require them to use known facts from the 3, 4 and 8x tables and go beyond their known facts to solve problems and write problems of their own.	
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	How Did We Do? Children work with a partner to explain how they solved the problems and see whether they agree on the answers.				

Masterit

Sketchit: Encourage children to draw out problems to help work out which calculation to use.

Linkit: Write word problems for given number sentences related to topic work or current events.