

KSI Maths Year 2

National Curriculum: KSI Ma2 1a, c, g, 4a, b.

Time: 45 minutes

Cross Curricular Link: English - Speaking and Listening. Objective 15 – to listen to each other's views and preferences and agree the next step.

Children will learn to solve simple word problems set in 'real life' contexts (in Africa) and explain how the problem was solved.

Lesson Objectives

- Begin to choose the appropriate strategy to solve problems.
- Begin to use mental addition, subtraction or simple multiplication strategies to solve story problems.
- Be able to explain orally or in writing how the problem was solved.

Preparation

- Prepare flash cards of key vocabulary; e.g. addition, subtraction.
- 1 copy of the story problem worksheet per child.
- 1 set of number fans.

Starter/ Warm Up

Ask the children some simple mental addition and subtraction problems using one step operations, e.g. $20 - 7$. Children use their number fans to show the answer. Differentiate using some target questioning.

Whole Class Teaching

Explain that we sometimes use mental maths strategies to help solve problems. Look at a one step operation as a class: e.g. *A farmer has 18 chickens and sells 6 of them at market. How many does he have left?* Highlight the key words together. Ask the children what the question is asking us. What operation do we need to use? Why? How could we work out the answer?

Model one strategy on the board. Ask if the children did it differently? Repeat with another one step operation and then a two step operation: e.g. *There are 7 school books on the classroom shelf. 5 more books are put back and then 3 are taken off the shelf. How many books are left?*

Encourage children to explain their thinking and check whether they have done what the question asked them to do.

Independent Work

Give each child a sheet (overleaf) with the real life story problems to complete. Encourage them to show their working.

Lower ability children could work on one or two problems only or work in pairs.

Extension – use higher numbers in the problems or a three step operation.

Plenary

As a class go through each story problem on the sheet: what was each one asking us? Which operation did you use and why? Did some children use different strategies to others? Address any misconceptions the children may have had.

FARM-Africa Story Problems

- 1) Mrs Bokayo's chicken laid 19 eggs in the chicken coop. She decided to collect 4 eggs to make Mr Bokayo's breakfast. How many eggs were left?

- 2) Patience was given 8 kidney beans from her mother and 7 mung beans from her father. How many beans did she have altogether?

- 3) Mr Utange bought 4 cows from the market. Each cow had 1 calf. How many cows did he now have?

- 4) There were 11 bees collecting pollen to make honey. 5 bees decided to fly home and 3 more bees flew out to help the rest collect pollen. How many bees were now collecting pollen?

- 5) Mrs Samson picked 18 cabbages from her vegetable patch. She gave 3 cabbages to her neighbour and 3 cabbages to her uncle. How many cabbages did she have left?

- 6) Esther has to walk 2 miles every day to collect water from the local well. How many miles does she walk in a week?