Package 12

Overview

Note: Your child will benefit from this package if they are unable to answer any of the pre-lesson questions.

Lesson 1:

Introducing problem solving language

Required prior knowledge: Process for all operations (add, take, time, divide)

Lesson 2:

Multiplication and addition problems

(one and two step)

Required prior knowledge: Addition and multiplication with regrouping

Lesson 3:

Multiplication and division problems

(one and two step problems)

Required prior knowledge: relationship between multiplication & division processes

Lesson 4:

Solving a variety of problem types

Required prior knowledge: All operations with regrouping

Problem Solving (+, −, ×, ÷)

Package 12, lesson 1
Introducing problem solving language

Pre-lesson questions (does your child need this package?)	Correct response?	Post-lesson observations (has your child gained the skills?)
Can your child identify language associated with subtraction? Question: How much more138 is than 78? (do not tell your child what kind of sum to use) ANS: 60 (do they realise that this is a take away?)	Yes/no	
Can your child identify language associated with division? Question: Ask when a division sum would be used: Finding the difference, or finding the cost of each? ANS: Cost of each (finding the difference is subtraction)	Yes/no	
Can your child identify language associated with addition? Question: Ask what kind of sum would you do to find the total of 45 and 56? ANS: Addition	Yes/no	
Can your child identify language associated with multiplication? Question: Ask what kind of sum would you use to add 5 groups of 27? ANS: Multiplication (if they say addition, do they know there is a quicker way?)	Yes/no	

What does this lesson teach?
This lesson will teach your child to:
Identify the language associated with different operations (add, take, times, divide)

What is included?

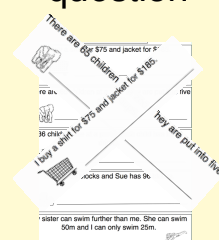| **A lesson plan** explaining **Math language & process**	Sorting chart	Write the question

Problem Solving (+, −, ×, ÷)

Package 12, lesson 2
Add or multiply whole numbers

Pre-lesson questions (does your child need this package?)	Correct response?	Post-lesson observations (has your child gained the skills?)
Does your child recognise when to use multiplication? Question: Is multiplication or addition used to add equal groups? ANS: Multiplication	Yes/no	
Can your child use two processes to solve a problem? Question: Find the total amount of money needed to give 3 children 75c and 4 children 20c. ANS: 3 x 75 + 5 x 20 = $3.25 (Do they use 'times' then addititon?)	Yes/no	

What does this lesson teach?

This lesson will teach your child to:
Visualise problems by using sketches and identifying language.
One and two step problems are included.

What is included?

A lesson plan explaining **Math language & process**

One step problems

Add or …
Multiply

Two step problems

step it out sheet
problem sh…

Problem Solving (+, −, ×, ÷)

Package 12, lesson 3
Differentiating between multiplication and division problems

Pre-lesson questions (does your child need this package?)	Correct response?	Post-lesson observations (has your child gained the skills?)
Does your child recognise division as splitting into groups? Question: How many pencils will each person will get if 48 pencils are shared between 4? ANS: 12	Yes/no	
Does your child recognise multiplication as adding equal groups? Question: How much money is 20 x 5c coins? ANS: 20 x 5 = 200c = $2 (does your child write a multiplication sum or skip count?)	Yes/no	
Can your child solve a 2 step problem? Question: 6 apples in a bag and I have 3 bags. How many apples will 2 children be given if they are shared equally? ANS: 6 x 3 = 15 apples to share; 18 ÷ 2 = 9 each	Yes/no	

What does this lesson teach?
This lesson will teach your child to:

**Recognise language and understand opposite processes.
One and 2 step problems are included.**

What is included?

A lesson plan explaining **Math language & process**	Word sorting	Game	Questions

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Problem Solving (+, −, ×, ÷)

Package 12, lesson 4
Solve a variety of problem types

Pre-lesson questions (does your child need this package?)	Correct response?	Post-lesson observations (has your child gained the skills?)
Does your child recognise which number operations (sums) will make the number bigger? Question: Would add, take, times or divide make a number bigger? ANS: Add and times	Yes/no	
Does your child recognise which number operations (sums) will make the number smaller? Question: Would add, take, times or divide to make a number smaller? ANS: take and divide	Yes/no	
Does your child use a variety of strategies to solve a problem? Question: Which strategies can help solve problems? ANS: Look for language clues, highlight important information, draw and label a sketch, use a table.	Yes/no	

What does this lesson teach?
This lesson will teach your child to:

Use a variety of strategies to identify how to solve given problems

What is included?

A lesson plan explaining **Math language & process**	Game	Flowchart aide for problem solving	Visual checklist