



Problem solving – worded problems

ESSENTIAL VOCABULARY

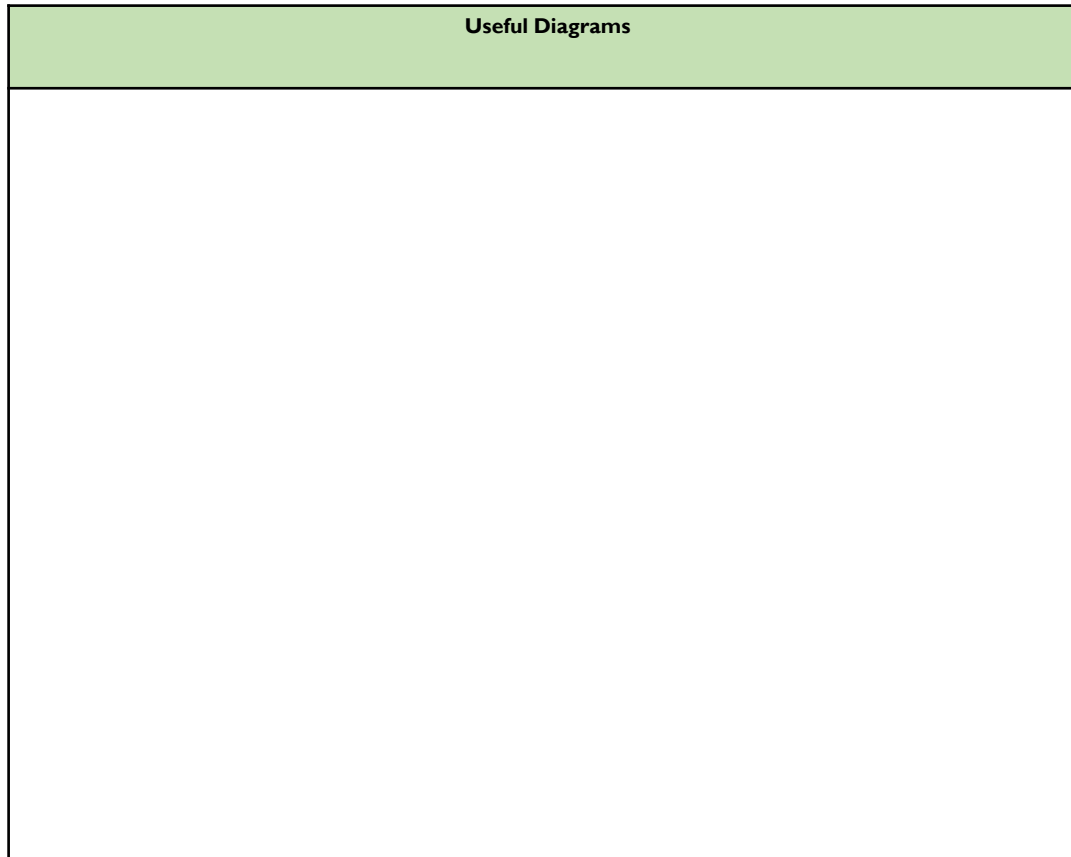
Add/plus/sum/altogether	The method of combining the total of two or more numbers.
Subtract/difference/less	The method of taking a value away from a number.
Total	The answer/finished sum.
Column addition	Formal method to solve addition questions.
Column subtraction	Formal method to solve subtraction questions.
Exchange	Regrouping means to exchange 10 of a particular place value column for 1 of the next place value column along.
Estimate	Round numbers to nearest 10, 100 or 1000 to suggest a reasonable answer.
Inverse operation	Addition and subtraction can be used as inverse operations to solve missing number questions.

LINKS TO PREVIOUS LEARNING

- Continuing to build on part whole understanding.
 - Putting previous learning into context.
 - Using bar models from KS1.
 - Gradual build up from lower numbers to higher numbers.
- Building on confidence with manipulatives and how to use these to create worded problems.

MATHS KNOWLEDGE ORGANISER

Useful Diagrams



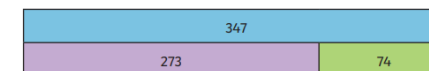
Stem Sentences

What information does the problem tell us?
 What does the whole bar represent?
 I know I have... on this side... and ... on this side. What will I need to do to find out how many missing parts it is equal to?

Key Themes

- Problem solving
- Number problems
- Number facts
- Place value
- Addition
- Subtraction

Checking answers



$347 - 74 = 273$ can be checked using
 $273 + 74 = 347$

This part whole shows the inverse calculations using these three numbers.

