

Discussion Problems

Step 1: Part Whole Model

National Curriculum Objectives:

Mathematics Year 1: (1C1) [Represent and use number bonds and related subtraction facts within 20](#)

Mathematics Year 1: (1C2b) [Read, write and interpret mathematical statements involving addition \(+\), subtraction \(-\) and equals \(=\) signs](#)

About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

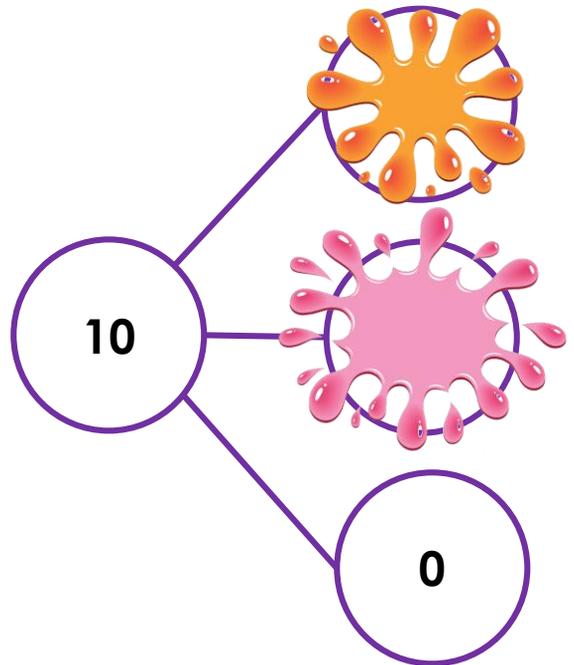
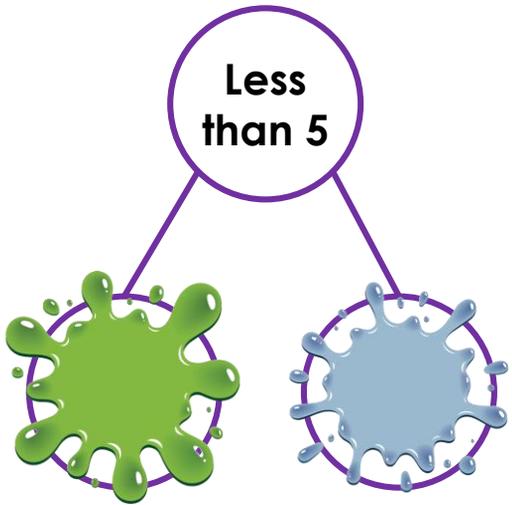
We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 1 Addition and Subtraction](#) Resources.

Did you like this resource? Don't forget to [review](#) it on our website.

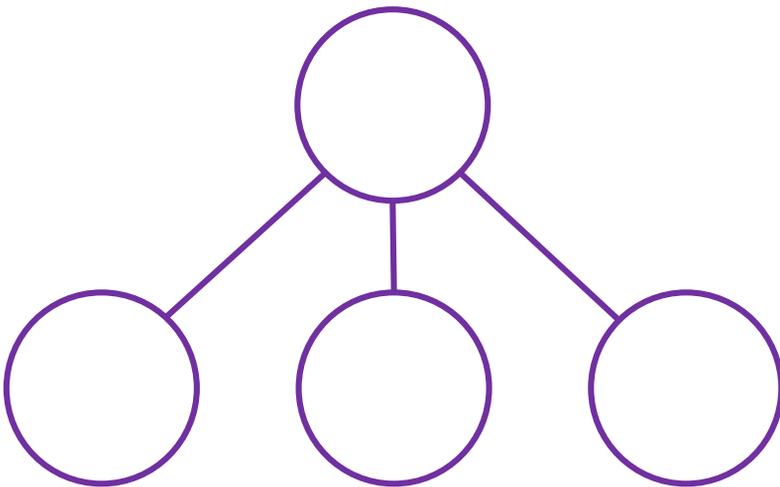
Part Whole Model

1. Investigate how the part whole models below could be completed. Find as many possible ways as you can.



DP

2. Use the clues below to work out what the possible missing numbers in the part whole model could be.



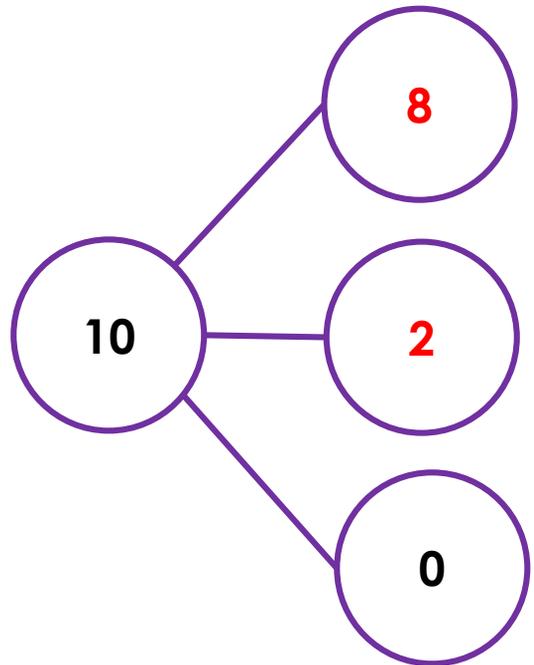
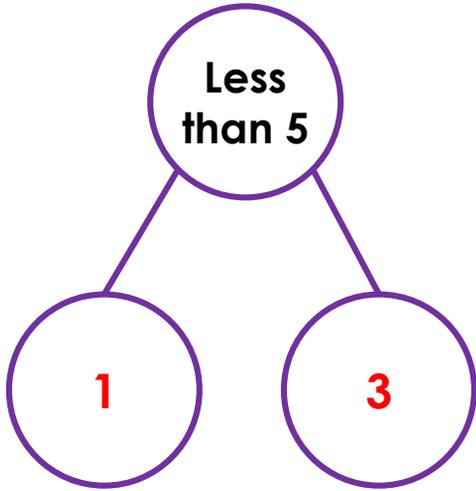
- My whole is more than 7 but less than 10.
- One of my parts is 0.
- One of my parts is less than 5.
- One of my parts must be written as a word.

DP

Part Whole Model

1. Investigate how the part whole models below could be completed. Find as many possible ways as you can.

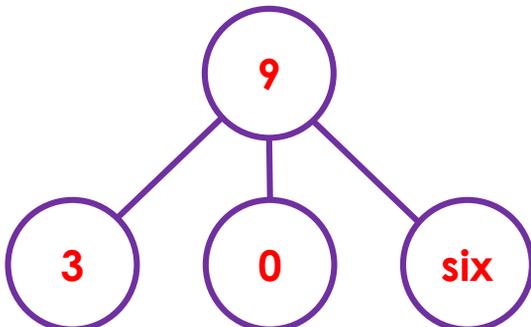
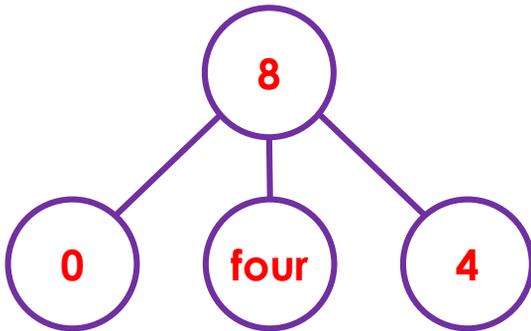
Various answers, for example:



DP

2. Use the clues below to work out what the possible missing numbers in the part whole model could be.

Various answers (where the whole number is 8 or 9), for example:



- My whole is more than 7 but less than 10.
- One of my parts is 0.
- One of my parts is less than 5.
- One of my parts must be written as a word.

DP