

Discussion Problems

Step 13: Order of Operations

National Curriculum Objectives:

Mathematics Year 6: (6C9) [Use their knowledge of the order of operations to carry out calculations involving the four operations](#)

About this resource:

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 6 Four Operations](#) resources.

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

Order of Operations

1. Look at the number cards below.



Using the number cards, find a calculation to make each of the totals below. The cards can only be used once for each total and you do not have to use every number.



DP

2. Three friends are talking to their teacher.



I think, using the numbers below, you won't be able to each find a different way to make 529.

We think we can!



Prove that the children are correct. You can only use each number once in each calculation.

DP

Order of Operations

1. Look at the number cards below.



Using the number cards, find a calculation to make each of the totals below. The cards can only be used once for each total and you do not have to use every number.



Various answers, for example:

- $110 = (5 \times 7) + 75$
- $675 = 5(100 + 50) - 75$
- $305 = 7(8 \times 5) + 100 - 75$
- $153 = 8(100 \div 5) - 7$

DP

2. Three friends are talking to their teacher.



I think, using the numbers below, you won't be able to each find a different way to make 529.

We think we can!



Prove that the children are correct. You can only use each number once in each calculation.

Various answers, for example:

- $529 = 100(6 - 1) + 25 + 4$
- $529 = 75(6 + 1) + 4$
- $529 = 100 \times 6 - 75 + 4$

DP