

Discussion Problems

Step 6: Subtract Two 4-Digit Numbers 2

National Curriculum Objectives:

Mathematics Year 4: (4C2) [Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate](#)

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 4 Addition and Subtraction](#) resources.

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

Subtract Two 4-Digit Numbers 2

1. On sports day, Jess and Simon ran 5,824m altogether. Simon ran more than 3,500m but less than 3,700m.

Use column subtraction to explore which distances Simon and Jess could have run. Find and match four combinations of distances for both children.



2,316m

3,617m

3,672m

2,305m

3,519m

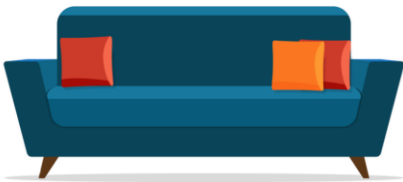
2,207m

3,508m

2,152m

DP

2. A designer furniture shop is having a sale on their leather sofas.



	Original price of sofa	Reduction	New sofa price
Sofa 1	£7,837		
Sofa 2	£6,782		
Sofa 3	£8,369		
Sofa 4	£7,693		
Sofa 5	£8,577		
Sofa 6	£6,994		

For each sofa listed above, roll a dice four times to make a 4-digit number. This number will give you the discount.

- i) Complete the table by filling in the discount and each sofa's newly reduced price.
- ii) Greg has a maximum budget of £6,800. Which sofas are now within his price range?

DP

Subtract Two 4-Digit Numbers 2

1. On sports day, Jess and Simon ran 5,824m altogether. Simon ran more than 3,500m but less than 3,700m.

Use column subtraction to explore which distances Simon and Jess could have run. Find and match four combinations of distances for both children.



2,207
2,152
2,305
2,316

and
and
and
and



3,617
3,672
3,519
3,508

2,316m

3,617m

3,672m

2,305m

3,519m

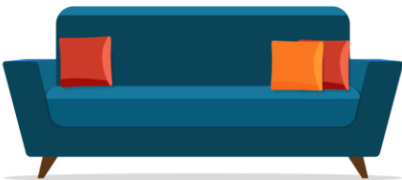
2,207m

3,508m

2,152m

DP

2. A designer furniture shop is having a sale on their leather sofas.
Various answers, for example:



	Original price of sofa	Reduction	New sofa price
Sofa 1	£7,837	£1,346	£6,491
Sofa 2	£6,782	£1,654	£5,128
Sofa 3	£8,369	£2,152	£6,217
Sofa 4	£7,693	£2,244	£5,449
Sofa 5	£8,577	£1,443	£7,134
Sofa 6	£6,994	£4,116	£2,878

For each sofa listed above, roll a dice four times to make a 4-digit number. This number will give you the discount.

- i) Complete the table by filling in the discount and each sofa's newly reduced price.
- ii) Greg has a maximum budget of £6,800. Which sofas are now within his price range?
Greg could now afford to buy Sofa 1, Sofa 2, Sofa 3, Sofa 4 or Sofa 6.

DP