

# Discussion Problems

## Step 1: Add More Than 4-Digits

### National Curriculum Objectives:

Mathematics Year 5: (5C2) [Add and subtract whole numbers with more than 4 digits, including using formal written methods \(columnar addition and subtraction\)](#)

### 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 5 Addition and Subtraction](#) resources.

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

## Add More Than 4-Digits

1. Harry, Georgia and Ashley have been playing 'Quarry Craft' on their computers. Below are their total scores and a list of the top 10 scores.

Total Scores	
Harry	65,232
Georgia	73,002
Ashley	56,273

1 <sup>st</sup>	41,207
2 <sup>nd</sup>	33,749
3 <sup>rd</sup>	27,641
4 <sup>th</sup>	25,921
5 <sup>th</sup>	24,790
6 <sup>th</sup>	20,348
7 <sup>th</sup>	18,905
8 <sup>th</sup>	18,686
9 <sup>th</sup>	12,797
10 <sup>th</sup>	11,447

Harry, Georgia and Ashley's total scores are a combination of three of the top 10 scores. What could their three scores have been?

DP

2. Ivan has won £100,000 on a game show.

He can spend the money on any of the prizes below.

<p><b>Car</b></p>  <p><b>£42,567</b></p>	<p><b>Summer Holiday</b></p>  <p><b>£23,409</b></p>	<p><b>Swimming Pool</b></p>  <p><b>£30,005</b></p>	<p><b>Cruise</b></p>  <p><b>£17,289</b></p>
<p><b>Skiing Holiday</b></p>  <p><b>£17,630</b></p>	<p><b>Speed Boat</b></p>  <p><b>£34,432</b></p>	<p><b>Investment</b></p>  <p><b>£25,000</b></p>	<p><b>Camper Van</b></p>  <p><b>£48,875</b></p>

Which combination of prizes could he spend the money on?

DP

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Harry, Georgia and Ashley's total scores are a combination of three of the top 10 scores. What could their three scores have been?

**Harry:**  $27,641 + 18,905 + 18,686 = 65,232$

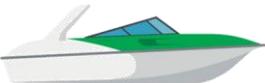
**Georgia:**  $11,447 + 41,207 + 20,348 = 73,002$

**Ashley:**  $11,447 + 18,905 + 25,921 = 56,273$

DP

2. Ivan has won £100,000 on a game show.

He can spend the money on any of the prizes below.

<p><b>Car</b></p>  <p><b>£42,567</b></p>	<p><b>Summer Holiday</b></p>  <p><b>£23,409</b></p>	<p><b>Swimming Pool</b></p>  <p><b>£30,005</b></p>	<p><b>Cruise</b></p>  <p><b>£17,289</b></p>
<p><b>Skiing Holiday</b></p>  <p><b>£17,630</b></p>	<p><b>Speed Boat</b></p>  <p><b>£34,432</b></p>	<p><b>Investment</b></p>  <p><b>£25,000</b></p>	<p><b>Camper Van</b></p>  <p><b>£48,875</b></p>

Which combination of prizes could he spend the money on?

**Various answers, for example:**

**Summer Holiday, Cruise, Skiing Holiday and Speed Boat.**

$£23,409 + £17,289 + £17,630 + £34,432 = £92,760$

DP