

# Discussion Problems

## Step 1: Numbers to 10,000

### National Curriculum Objectives:

Mathematics Year 5: (5N2) [Read, write, order and compare numbers to at least 1 000 000](#)  
Mathematics Year 5: (5N3a) [Determine the value of each digit in numbers up to 1 000 000](#)

### 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 Place Value](#) resources.

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

# Numbers to 10,000

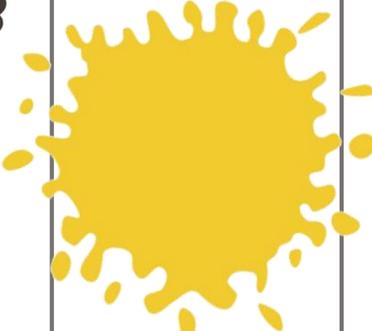
1. Romesh and Sara are playing a game. They must add or subtract 10, 100 or 1,000 each time, but they have spilled milkshake over their scorecards.



**Romesh**

515

1,515

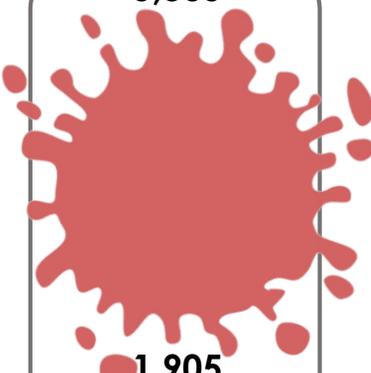


3,685



**Sara**

5,305



1,905

1,895

Explore what their missing calculations could have been.

DP

2. Cole's fitness tracker has recorded his total number of steps each day.

Day	Total Steps
Monday	5,051
Tuesday	10,000
Wednesday	8,200
Thursday	5,500
Friday	6,105



5,225



4,540



3,530



3,486



7,025



1,970



2,975



1,565

Use the total number of steps to help you work out which two destinations he visited each day.

DP

# Numbers to 10,000

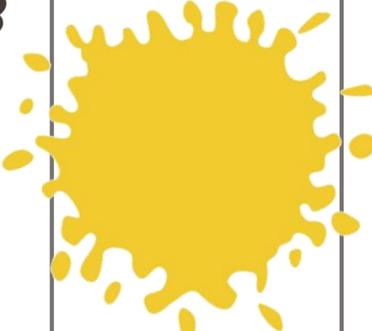
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Romesh

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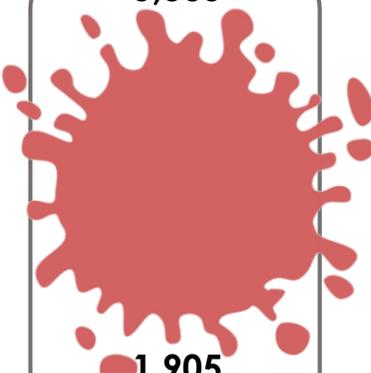


3,685



Sara

5,305



1,905

1,895

Explore what their missing calculations could have been.

**Various answers, for example:**

$$515 + 1,000 + 1,000 + 1,000 + 100 + 100 - 10 - 10 - 10 = 3,685$$

$$5,305 - 1,000 - 1,000 - 1,000 - 1,000 + 100 + 100 + 100 + 100 + 100 + 100 - 10 = 1,895$$

DP

2. Cole's fitness tracker has recorded his total number of steps each day.

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1,565

Use the total number of steps to help you work out which two destinations he visited each day.

**Monday – Bakery and Market; Tuesday – Books and Café; Wednesday – Ice-Cream Parlour and Café; Thursday – Pharmacy and Store; Friday – Restaurant and Bakery**

DP