

# Homework/Extension

## Step 1: 1s, 10s, 100s, 1,000s

### 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](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Follow a rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number represented pictorially. No exchanging.

**Expected** Follow a three-step rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number, represented pictorially. Includes some exchanging in one column.

**Greater Depth** Follow a three-step rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number, no pictorial representation. Includes some exchanging in two columns.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Identify the odd one out by adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. No exchanging.

**Expected** Identify the odd one out by adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. Includes some exchanging in one column.

**Greater Depth** Identify the odd one out by adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. Includes some exchanging in two columns.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Identify the rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. No exchanging. Also includes making a sequence of 4-digit numbers using their own rule.

**Expected** Identify the rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. Includes some exchanging in one column. Also includes making a sequence of 4-digit numbers using their own rule.

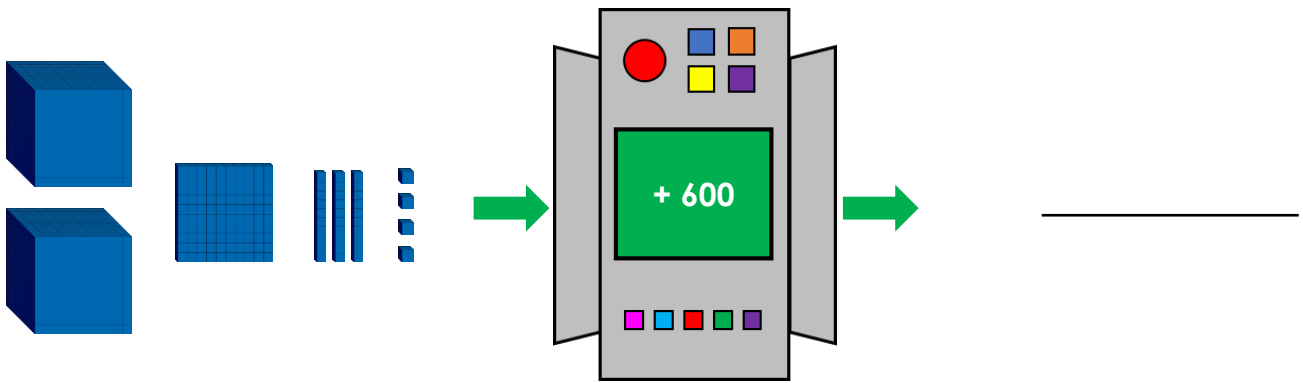
**Greater Depth** Identify the rule of adding or subtracting 1s, 10s, 100s or 1,000s to or from a 4-digit number. Includes some exchanging in two columns. Also includes making a sequence of 4-digit numbers using their own rule.

More [Year 4 Addition and Subtraction](#) resources.

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

# 1s, 10s, 100s, 1,000s

1. Work out the final number if you put the number below through the function machine.



VF  
HW/Ext

2. Who is the odd one out?

**Wei**

If I add 4,000 to 2,658 I get 6,638.

**Niamh**

If I subtract 200 from 4,243, I get 4,647.

**Mila**

If I add 50 to 4,135 I get 4,175.

**Asif**

If I subtract 3 from 2,564 I get 2,561.



VF  
HW/Ext

3. What is the sequence increasing by each time?

<p>1,221</p>	<p>1,421</p>	<p>1,621</p>	<p>1,821</p>
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The rule for the sequence above is \_\_\_\_\_

Make your own sequence of four 4-digit numbers by choosing your own rule for adding or subtracting 1s, 10s, 100s and 1,000s.

My rule is \_\_\_\_\_

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RPS  
HW/Ext

# 1s, 10s, 100s, 1,000s

4. Work out the final number if you put the number below through the function machine.

The function machine performs the following operations:  $+ 50$ ,  $- 3,000$ , and  $+ 700$ .

\_\_\_\_\_



VF  
HW/Ext

5. Who is the odd one out?

**Olivia**

If I add 500 to 1,847, then subtract 2 I get 2,245.

**Kai**

If I add 70 to 3,158, then add 6,000 I get 9,218.

**Jakub**

If I subtract 4,000 from 9,263, then add 80 I get 5,333.

**Assia**

If I subtract 6 from 7,498, then subtract 800 I get 6,692.



VF  
HW/Ext

6. What is the sequence decreasing by each time?

4,376

3,254

1,000

10

The rule for the sequence above is \_\_\_\_\_

Make your own sequence of four 4-digit numbers by choosing your own rule for adding or subtracting 1s, 10s, 100s and 1,000s.

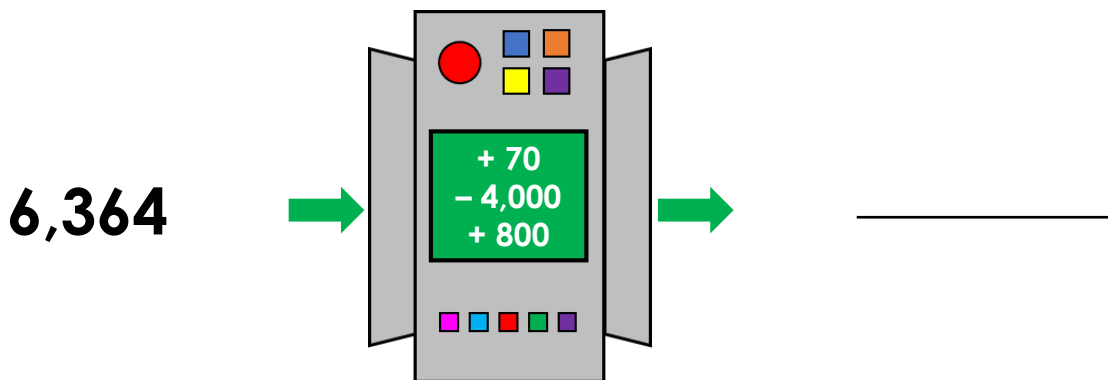
My rule is \_\_\_\_\_



RPS  
HW/Ext

# 1s, 10s, 100s, 1,000s

7. Work out the final number if you put the number below through the function machine.



VF  
HW/Ext

8. Who is the odd one out?



Jan

If I add 8 to 1,636, then subtract 700 I get 1,944.



If I add 90 to 6,867, then add 5,000 I get 11,967.



Ava



Mei

If I subtract 7,000 from 8,779, then add 60 I get 1,839.

If I subtract 5 from 4,782, then subtract 800 I get 3,877.



Adam



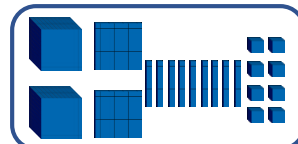
VF  
HW/Ext

9. What is the sequence decreasing by each time?

5,985

4,756

3,527



The rule for the sequence above is \_\_\_\_\_

Make your own sequence of four 4-digit numbers by choosing your own rule for adding or subtracting 1s, 10s, 100s and 1,000s.

My rule is \_\_\_\_\_



RPS  
HW/Ext

## Homework/Extension 1s, 10s, 100s, 1,000s

### Developing

1. **2,734**
2. **Asif is the odd one out as he is the only one correct.**
3. **+ 200; Accept any sequence that follows a rule correctly.**

### Expected

4. **1,006**
5. **Assia is the odd one out as she is the only one correct.**
6. **- 1,122; Accept any sequence that follows a rule correctly.**

### Greater Depth

7. **3,234**
8. **Mei is the odd one out as she is the only one correct.**
9. **- 1,229; Accept any sequence that follows a rule correctly.**