

# Homework/Extension

## Step 1: Add and Subtract Integers

### National Curriculum Objectives:

Mathematics Year 6: (6C8) [Solve problems involving addition, subtraction, multiplication and division](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Complete the part whole model using addition or subtraction of 5-digit integers with up to one exchange.

**Expected** Complete the part whole model using addition or subtraction of 6-digit integers with up to two exchanges.

**Greater Depth** Complete the part whole model using addition or subtraction of 6-digit integers with multiple exchanges.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Use the place value charts to complete an addition and a subtraction calculation using 5-digit integers with up to one exchange.

**Expected** Use the place value charts to complete an addition and a subtraction calculation using 6-digit integers with up to two exchanges.

**Greater Depth** Use the place value charts to complete an addition and a subtraction calculation using 6-digit integers with multiple exchanges.

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

**Developing** Calculate the solution to a given word problem using addition or subtraction of 5-digit integers with up to one exchange and involving a single step.

**Expected** Calculate the solution to a given word problem using addition or subtraction of 6-digit integers with up to two exchanges and involving up to two steps.

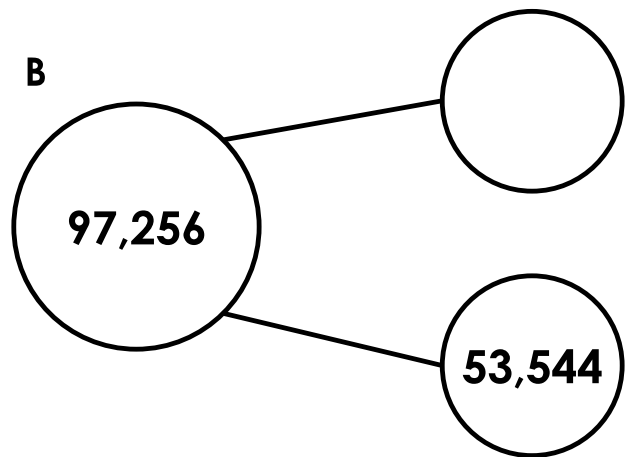
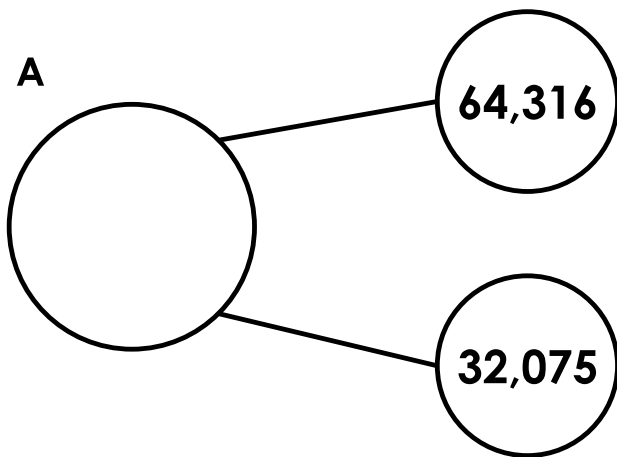
**Greater Depth** Calculate the solution to a given word problem using addition or subtraction of 6-digit integers with multiple exchanges and multiple steps. Some numbers are represented in words.

More [Year 6 Four Operations](#) resources.

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

# Add and Subtract Integers

1. Complete the part whole models below.



VF  
HW/Ext

2. Using the two numbers in the place value chart, complete the calculations below.

TTh	Th	H	T	O

**A**

+						
<hr/>						

**B**

-						
<hr/>						



VF  
HW/Ext

3. Last year, an ice cream company made 54,841 tubs of chocolate chip and raspberry ripple at the start of summer. The table below shows how many were sold in the 6 week holidays altogether. How many tubs were left at the end of the holidays?

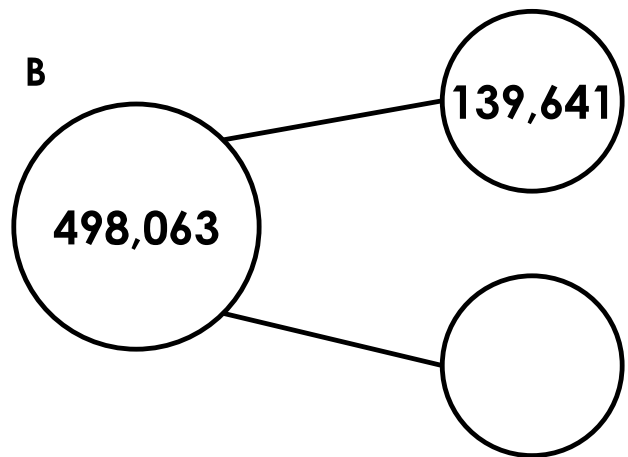
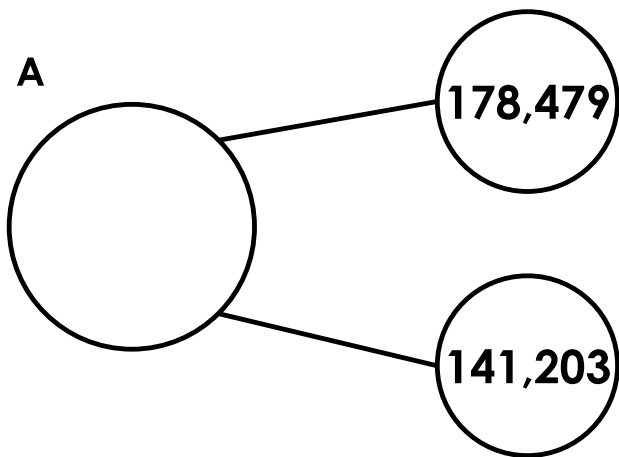
Flavour	Tubs sold
Chocolate chip	32,041
Raspberry ripple	11,020
<b>Total</b>	<b>43,061</b>



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# Add and Subtract Integers

4. Complete the part whole models below.



VF  
HW/Ext

5. Using the two numbers in the place value chart, complete the calculations below.

HTh	TTh	Th	H	T	O

**A**

+						
<hr/>						

**B**

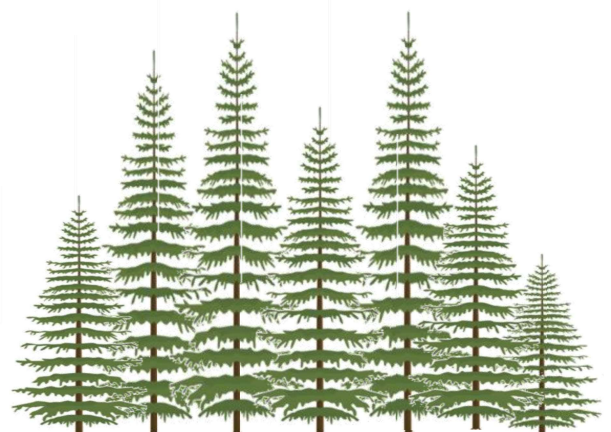
-						
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VF  
HW/Ext

6. Last year, a Christmas tree farm started the season with 743,206 trees. The table below shows how many were sold in the run up to Christmas. How many were left at the end of the season?

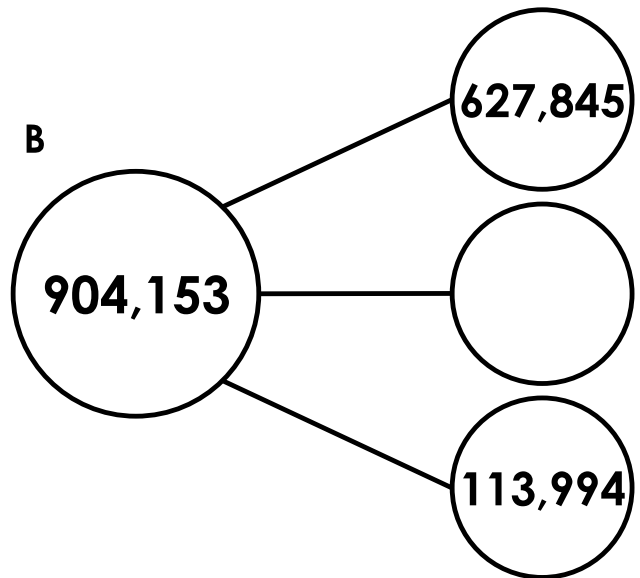
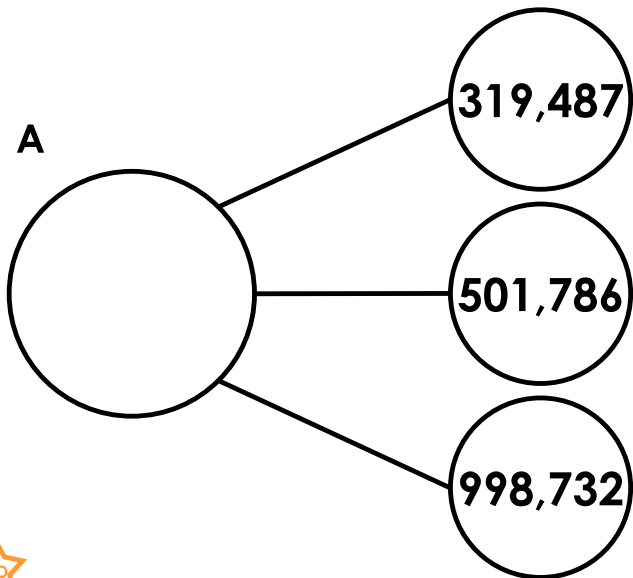
Month	Trees sold
November	338,123
December	404,926



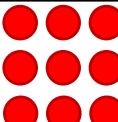



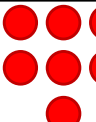


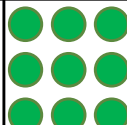
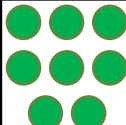

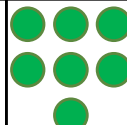
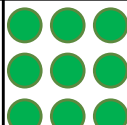

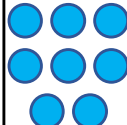

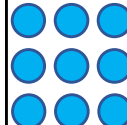

RPS  
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## Add and Subtract Integers

**7. Complete the part whole models below.**

VF  
HW/Ext

**8. Using the numbers in the place value chart, complete the calculations below.**

HTh	TTh	Th	H	T	O
					
					
					

[illegible]

+						

A 2x10 grid. A horizontal line is drawn across the bottom row. A short horizontal dash is located in the first cell of the top row.



VF  
HW/Ext

9. Last year, a chocolate factory made 901,334 chocolate eggs at the start of Lent. The table below shows how many were sold in the run up to Easter. How many were left at the end of Easter? How many were sold altogether?

Month	Eggs sold
February	one hundred and two thousand, six hundred and seventy-seven
March	474,986
April	319,808

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HW/Ext

## Homework/Extension

### Add and Subtract Integers

#### Developing

1. **A – 96,391; B – 43,712**
2. **A – 69,585; B – 21,723**
3. **11,780**

#### Expected

4. **A – 319,682; B – 358,422**
5. **A – 583,647; B – 145,537**
6. **157**

#### Greater Depth

7. **A – 1,820,005; B – 162,314**
8. **A – 1,792,946; B – 35,604 (498,179 + 380,492 = 878,671; 914,275 – 878,671 = 35,604)**
9. **left – 3,863; sold – 897,471**