



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## **P4 Problem Sum Worksheet**

### **Topic : Before and After**

#### **Topic 1: 1 variable changed 1 variable kept constant – Question 1**

A farmer had four times as many apples as oranges.  
After he had sold 175 apples, he had twice as many oranges as apples.  
How many apples did he have at first?

#### **Topic 1: 1 variable changed 1 variable kept constant – Question 2**

Belinda had thrice as many sweets as Wanli at first. After Wanli had given away 8 sweets, Belinda had 5 times as many sweets as Wanli. How many sweets did Belinda have?

**Topic 1: 1 variable changed 1 variable kept constant – Question 3**

Alice had an equal amount of apple juice and orange juice at first.  
She drank 400 ml of apple juice.  
In the end, she had 3 times as much orange juice as apple juice.  
How much apple juice did she have at first?  
Express your answer in millilitres. [3 marks]

**Topic 2: Both variables changed – Question 1**

Annie and Sarah had the same number of stickers at first. After Annie had bought 38 stickers and Sarah had lost 25 stickers, Annie had 4 times as many stickers as Sarah. How many stickers did each girl have at first?

**Topic 2: Both variables changed – Question 2**

Mrs Bay and Mrs Chan went shopping with the same amount of money at first. Mrs Bay spent \$480 and Mrs Chan spent \$620. In the end, Mrs Bay had twice as much money as Mrs Chan. How much money did both of them have altogether at first?

**Topic 2: Both variables changed – Question 3**

Joy had 284 markers and crayons. After she gave away  $\frac{4}{5}$  of the markers and 26 crayons, she had an equal number of markers and crayons left.

- a) How many markers did she have left?
- b) How many crayons did she have at first?

**Topic 2: Both variables changed – Question 4**

Jessie had 3 times as many cookies as Wendy. After Jessie bought 26 cookies and Wendy bought 62 cookies, they had an equal number of cookies. How many cookies did Wendy have in the end?

**Topic 2: Both variables changed – Question 5**

A shopkeeper had a total of 1028 apples and oranges. He sold  $\frac{1}{3}$  of his apples and 73 oranges. He then had an equal number of apples and oranges left.

- (a) What fraction of apples had he left?
- (b) How many apples did he sell?

**Topic 3: Internal transfer – Question 1**

Adelene had three times as many marbles as Betty. After Adelene had given Betty 25 marbles, they had the same number of marbles each. How many marbles did they have altogether?

**Topic 3: Internal transfer – Question 2**

Mr Yap and Mr Lim had a total of 508 paintings. After Mr Yap gave Mr Lim 136 paintings, Mr Lim had thrice as many paintings as Mr Yap. How many paintings does Mr Lim have at first?

**Topic 3: Internal transfer – Question 3**

Aisha and Bryan had a total of 420 stamps. After Bryan gave Aisha 50 of his stamps, he had 5 times as many stamps as Aisha. How many stamps did Bryan have at first?

**Topic 3: Internal transfer – Question 4**

Bernard had 1360 marbles and Ronald had 4970 marbles. Ronald gave some marbles to Bernard. In the end, Bernard had twice as many marbles as Ronald.

- (a) How many marbles did Ronald have in the end?
- (b) How many marbles did Ronald give Bernard?

**Topic 3: Internal transfer – Question 5**

Ahmad had 80 more stickers than Tom.

After Tom gave Ahmad 10 stickers, Ahmad had twice as many stickers as Tom. How many stickers did Tom have at first?

**Topic 3: Internal transfer – Question 6**

A tank and a flask contained a total of 3000 ml of water at first. David spilled 345 ml of water from the tank. He then transferred 480 ml of water from the tank to the flask. As a result, the tank had twice as much water as the flask. How much water was in the flask at first?