



# Maths Accelerator Centre

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## **P3 Problem Sums Mini Course**

### **Term 4 Lesson 2**

1. Strategy : Work Backwards
2. Trending Problem Sums

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**Learn Techniques  
To Solve Problem Sums  
With High Accuracy**

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Heuristics 1 : Working Backwards

1. A show owner had some guppies. In the morning, he sold 147 guppies. In the afternoon, he bought another 50 guppies. He had 131 guppies in the end. How many guppies did he have at first? (SNGS/19)

2. A florist had some roses. In the morning, he sold 158 roses. In the afternoon, she bought another 60 roses. He had 124 roses in the end. How many roses did she have at first?

Comparison Model (Level 2)

1. Charmaine had 253 red beads, yellow beads and green beads in total. She had 125 more red beads than yellow beads and 6 times as many green beads as yellow beads. How many green beads did Charmaine have? (SNGS/19)

2. Ken had 264 red, blue and green pens in total. He had 131 more red pens than blue pens and 5 times as many green pens as blue pens. How many red pens did Ken have?

Trending Problem Sums

1. Sam, Tim and Mike shared some money.

Tim received \$ 100. Sam received \$ 128 more than Tim. Mike received 3 times as much money as Sam. ATS/19

- a. How much money did Sam receive?
- b. How much money did Mike receive?

2. In the morning, there were equal number of buses and vans in a car park.

In the afternoon, 90 buses and 54 vans left the car park. ATS/19

After this, the number of vans in the car park became twice the number of buses in the car park.

- a) How many buses were still in the car park in the afternoon?
- b) How many vans were in the car park in the morning?

3. The mass of a box and 6 identical metal balls is 1 kg 92 g.

The mass of the box is 120 g.

a. What is the mass of the 6 metal balls?

b. What is the mass of each metal ball?

(Express your answers in grams)

HP/22/SA2

4. The total number of stickers five children have is the same as the total number of stickers two adults have.

The five children and two adults have a total of 470 stickers.

- a. How many stickers do the two adults have altogether?
- b. Each of the five children has the same number of stickers. Find the number of stickers each child has.

HP/22/SA2