



Maths Accelerator Centre

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P4 Problem Sums – Mini Lesson

Term 1 Lesson 4

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Revision Notes :

In primary school, the Stacking Model is a powerful way to visualize relationships between different quantities. We use vertical rectangular blocks to represent values.

The Stacking Model Visualization

With reference to the discussion question, we first represent the relationship between the bed and the chair. Since the chair is \$280 cheaper, the bed's bar is longer.

Now, we "stack" the information from the second part of the problem:

$$1 \text{ Bed} + 4 \text{ Chairs} = \$880.$$

By replacing the "Bed" with "1 Chair + \$280", we can see the total cost in terms of identical "units" (chairs).

Strategy Description: The Unit Method

The Stacking Model strategy involves levelling out all items so they represent the same "unit" value. By subtracting the known difference (\$280) from the total, we create a scenario where all items are equal in price. This allows us to use simple division to find the value of a single unit.

Key Takeaway

The Stacking Model strategy involves the following steps :

1. **Identify the "extra" amount** (the difference).
2. **Subtract the extra** from the total to make all "units" equal.
3. **Divide** by the total number of units to find the price of the cheaper item.

Discussion Question

Follow the trainer in this video and solve this question.

A chair costs \$ 280 lesser than a bed. A bed and 4 identical chairs cost \$ 880.

- a. How much does each chair cost?
- b. Find the cost of a bed and 2 identical chairs

Practice Time

Here are **4 practice questions** based on this strategy.

Follow the step-by-step method we discussed in the video to solve each one.

- ✓ Work through the problems carefully.
- ✓ Check your solutions against the **Answer Key** provided on the last page.

1. A school bag costs **\$45 more** than a pencil case. A school bag and **3 identical** pencil cases cost **\$105**.

a. How much does each pencil case cost?

b. Find the total cost of 2 school bags and 1 pencil case.

2. A microwave costs **\$150 less** than a refrigerator. A refrigerator and **2 identical** microwaves cost **\$1,200**.

a. What is the cost of one microwave?

b. What is the total cost of 2 refrigerators and 2 microwaves?

3. A laptop costs **\$800 more** than a tablet. **One** laptop and **5 identical** tablets cost **\$2,300**.

a. How much does one tablet cost?

b. Find the cost of 1 laptop and 1 tablet.

4. A box of durians costs **\$35 more** than a box of mangosteens. **One** box of durians and **6 identical** boxes of mangosteens cost **\$140**.

a. How much does a box of mangosteens cost?

b. Find the cost of 2 boxes of durians and 2 boxes of mangosteens.

Answer Key

1a. \$ 15

1b. \$ 135

2a. \$ 350

2b. \$ 1700

3a. \$ 250

3b. \$ 250

3b. \$ 1300

4a. \$ 15

4b. \$ 130