

## MATHS MISSION

## School Kitchen Stocktake

 **YOUR ROLE: KITCHEN HELPER**
 **Your Mission**

You help out in the school kitchen. Before this week's food delivery arrives, you've been asked to check the shelves and work out what needs to be reordered.

The kitchen only has \$150 to spend on this order — so you also need to decide what matters most.

 **Before You Begin**

- Why is it a problem if a school kitchen runs out of something like bread or milk?
- How do you think someone running a kitchen decides how much of something to order?

 **Talk with a partner: what would you hate to see the kitchen run out of?**

 **Background**

A school kitchen feeds a lot of people every single day. When something runs out, it's a real problem — ordering the right amount, without wasting money on too much, is an important everyday job.

 **Step 1 – How Much Did We Use?**

Use the table below to work out how many of each item were used since Monday's delivery.

| Item               | Stock Monday | Stock Today | Used  |
|--------------------|--------------|-------------|-------|
| Bread (loaves)     | 40           | 13          | _____ |
| Milk (cartons)     | 36           | 9           | _____ |
| Tinned food (tins) | 60           | 22          | _____ |
| Juice (cartons)    | 84           | 18          | _____ |

- Which operation did you use to find 'Used'?

 **Compare your table with a partner before you move on.**

 **Step 2 – How Many Packs To Order?**

The supplier only sells in packs. Bread comes in packs of 12, milk in packs of 6, tinned food in packs of 24, and juice in packs of 24.

For each item, divide the amount used by the pack size to find out how many packs to order.

| Item        | Used  | Pack Size | Packs To Order |
|-------------|-------|-----------|----------------|
| Bread       | _____ | 12        | _____          |
| Milk        | _____ | 6         | _____          |
| Tinned food | _____ | 24        | _____          |
| Juice       | _____ | 24        | _____          |

- If your division doesn't come out as a whole number, do you round up or down? Why?

### Step 3 – Staying Within Budget

Each pack costs: Bread \$18, Milk \$15, Tinned food \$30, Juice \$22.

Multiply the number of packs by the cost per pack to find the cost for each item, then add them together for a total.

- Total order cost = \_\_\_\_\_
- Is the total under, over, or exactly \$150?

### Make a Decision

If the total order comes to more than \$150, which items should be reordered first?

- ☐ Order everything and go over budget
- ☐ Cut back on one or more items
- ☐ Order smaller amounts of everything

Explain which items you would prioritise and why.

: \_\_\_\_\_

: \_\_\_\_\_

### Mission Challenge

A big event is coming up, and the kitchen expects to use double the usual amount of juice and bread that week.

Recalculate how many packs of bread and juice should be ordered for that week.

| Item  | Usual Used | Expected (Doubled) | Packs To Order |
|-------|------------|--------------------|----------------|
| Bread | 27         | _____              | _____          |
| Juice | 66         | _____              | _____          |

Does doubling the amount used double the number of packs needed? Why or why not?

: \_\_\_\_\_

### Extension Challenge

Write a rule that works out the number of packs to order for any amount used, if you know the pack size.

**What is your rule?**

 *Talk with a partner before you write your rule.*

My idea: \_\_\_\_\_

### Community Connection

Every community relies on some kind of kitchen, canteen, or store.

- School kitchen
- Community store
- School canteen
- A family pantry or freezer

Think about a real kitchen or store you know. What item always seems to run out first?

: \_\_\_\_\_



## Reflection

Circle how you felt about today's mission:



Confident



Mostly understood



Needed some help



Found it difficult

What was the trickiest part of deciding how many packs to order?

: \_\_\_\_\_



## Bonus Challenge

You're in charge of the kitchen for a month. Write one idea for stopping a popular item from always running out.

: \_\_\_\_\_

: \_\_\_\_\_