

Example:

READ THE PROBLEM – CAN I SOLVE IT MENTALLY? NO, THE PROBLEM REQUIRES AT LEAST TWO CALCULATIONS I NEED TO USE JOTTINGS OR A WRITTEN METHOD

WHAT CALCULATION DO I NEED? PART 1: FIRST I NEED TO FIND HOW MANY PACKS KATE HAS BOUGHT ($24 \div 4 = 6$ PACKS). NEXT I NEED TO CALCULATE HOW MUCH THAT COSTS: $6 \text{ PACKS} \times \text{£}1.20 = \text{£}7.20$

Kate buys 24 cans of lemonade. She buys to the cans in packs of four. Each pack costs £1.20.

Steve buys 24 cans of lemonade. He buys the cans in packs of 6. Each pack costs £1.60.

WHAT CALCULATION DO I NEED? PART 2. SECOND I NEED TO FIND HOW MANY PACKS STEVE HAS BOUGHT ($24 \div 6 = 4$ PACKS). NEXT I NEED TO CALCULATE HOW MUCH THAT COSTS: $4 \text{ PACKS} \times \text{£}1.60 = \text{£}6.40$

How much more does Kate pay for her lemonade than Steve?

WHAT CALCULATION DO I NEED? PART 3. FINALLY I NEED TO CALCULATE THE DIFFERENCE BETWEEN KATE'S LEMONADE AND STEVE'S LEMONADE. $\text{£}7.20 - \text{£}6.40 = 80\text{p}$

CHECK THE ANSWER USING A DIFFERENT METHOD - I COULD USE A REPEATED ADDITION TO CALCULATE COST OF CANS $\text{£}1.20 + \text{£}1.20 + \text{£}1.20 + \text{£}1.20 + \text{£}1.20 + \text{£}1.20 = \text{£}7.20$. I COULD USE A NUMBERLINE TO FIND THE DIFFERENCE BETWEEN $\text{£}7.20$ AND $\text{£}6.40$

CHECK THE ANSWER USING INVERSE OPERATION - PART 1 $\text{£}7.20 \div 6 = \text{£} 1.20$; PART 2 $\text{£}6.40 \div 4 = \text{£} 1.60$; PART 3 $\text{£}6.40 + 80\text{p} = \text{£} 7.20$

YOUR TURN.

A) In this sequence, the rule to get the next number is MULTIPLY BY 2 and THEN add 3. Write in the missing numbers. ?, 25, 53, ?

B) Layla makes jewellery to sell at a school fair.

Each bracelet has 53 beads – she makes 68 bracelets.

Each necklace has 105 beads – she makes 34 necklaces.

How many beads does Layla use altogether?

C) Ken buys 3 large boxes of chocolates and 2 small boxes of chocolates. Each large box has 48 chocolates and each small box has 24 chocolates. How many chocolates has Ken got altogether?

D) A box contains tray of melons. There are 15 melons in a tray. There are 3 trays in a box. A supermarket sells 40 boxes – how many melons does it sell?