Money problems: flowchart

Extra topic · Which kind of money problem? Follow the arrows to find out

A money problem

What is the question about?
First change everything to £ or everything to p: 80p = £0.80

Shopping and change

Ali buys 4 cakes at £1.30 each and 2 tins of soup. He pays with £10 and gets £1.80 change. Find the cost of one tin.

1. Spent: £10 − £1.80 = £8.20
2. Cakes: 4 × £1.30 = £5.20
3. Soup: £8.20 − £5.20 = £3.00 for 2 tins
4. One tin: £3.00 ÷ 2 = **£1.50**

✓ Work backwards from the change

Wages, bills and payments

Kim is paid £8.40 an hour for 12 hours and £11.20 an hour for 8 hours. Find her total pay.

1. 12 × £8.40 = £100.80
2. 8 × £11.20 = £89.60
3. Add: £100.80 + £89.60 = **£190.40**

✓ Deposit? Take it off first: (£1428 − £150) ÷ 6 = £213

Planning and sharing

4 friends go away for 7 days. Each person: travel £150, hotel £50 a day, food £250. Find the total cost.

1. Hotel for one: 7 × £50 = £350
2. One person: £150 + £350 + £250 = £750
3. 4 people: 4 × £750 = **£3000**

✓ Cost for one, then multiply

Is the answer a number of whole things?
packs, tickets, buses

No → **Write money to 2 d.p.**
£4.50, not £4.5

Yes

Need at least → round **up**: 100 cans ÷ 12 = 8.33… → **9 packs**
Can only afford → round **down**

The big question

What is it about: **shopping**, **pay and bills**, or **planning a cost**?

List every cost, then add.

Watch out

- Mixing £ and p.
- Forgetting to multiply by how many.
- Using one rate for all the hours.
- Missing that the hotel is per day.
- Forgetting the deposit.
- "Is she right?" Work it out, then say yes or no with numbers.