

Problem solving with addition and subtraction: money 2 - answers

1.

Step 1 Read and understand the problem.	You can save 50% off the cost of a cinema ticket if you buy it 2 weeks in advance. The full ticket price is £7. How much would it cost to buy 3 tickets in advance?
Step 2 Work out what calculations you need to do.	50% is half. You need to work out half the cost of 3 half-price tickets. Work out the cost of 1 half-price ticket (divide by 2) and then add 3 lots or multiply by 3.
Step 3 Carry out the calculations and answer the problem.	Half of £7 is £3.50 (cost of 1 ticket). So $£3.50 + £3.50 + £3.50 = £10.50$ It would cost £10.50 to buy 3 tickets in advance.
Step 4 Check your answer works.	Try a different method. Work out the cost of 3 full-price tickets, then halve the total cost. $3 \times 7 = 21$ Half of 21 = £10.50. The answer is correct.

2.

Step 1 Read and understand the problem.	A coach ticket usually costs £15 but you managed to get a special saver ticket for half price. How much change will you get from £10?
Step 2 Work out what calculations you need to do.	This involves division and subtraction. Halve the £15 to find the ticket cost and then take this price away from the £10 to see how much change there would be.
Step 3 Carry out the calculations and answer the problem.	To work out half of £15, you could say half of £14 is £7 then half of £1 is £0.50 $£7 + £0.50 = £7.50$ (cost of ticket). Count on from £7.50 to £10 to work out the change. $£7.50$ to $£8$ is $£0.50$ $£8$ to $£10$ is $£2$ $£0.50 + £2 = £2.50$ change. There should be £2.50 change.
Step 4 Check your answer works.	Double the £7.50 to check you've worked out half of £15 correctly: $£7.50 + £7.50 = £15$ Adding £2.50 back to £7.50 should give £10: $£2.50 + £7.50 = £10$ The answer is correct.