



Eleven Plus
Revision Books

Advance Maths Problem Solving Worksheet C

1. While in the cinema Daniel bought two boxes of popcorn and three drinks for his friends to share. It cost Daniel £7.25. When Jeremiah arrived, he bought three drinks and five boxes of popcorn for his friend. Jeremiah spent £12.50.
 - How much does a box of popcorn cost?
 - How much does a drink cost?

2. The summer fair at school was attended by 350 people. The ratio of adults to children was 3:4. The total amount of money raised was £3,495. The mean amount spent by each child was £6.
What was the mean amount spent by each adult?

3. The tap in Ria's bathroom drips 1 drop every 12 seconds. Each of the drops has a volume of 3mm^3 . How many litres of water are wasted by Ria's leaky tap per day?

4. The winner of the Roberttown 10km race took 33 minutes 20 seconds to complete the course. She completed the first 5km in 20 minutes 50 seconds. What was her average speed in metres per second for the second half of the race?

5. Zak has four different coins in his pocket. Naail also has four different coins in his pocket. None of Zak's or Naail's coins are the same.
 - What is the Maximum difference between the value of the two boy's coins?
 - What is the Minimum difference between the value of the two boy's coins?



5. Zak has four different coins in his pocket. Naail also has four different coins in his pocket. None of Zak's or Naail's coins are the same.
- What is the Maximum difference between the value of the two boy's coins?
£3.52
 - What is the Minimum difference between the value of the two boy's coins?
£0.28

Coins: 1p , 2p, 5p, 10p, 20p, 50p, £1, £2

Maximum from 4 coins: $20p + 50p + £1 + £2 = £3.70$

Minimum from 4 coins: $1p + 2p + 5p + 10p = 18p$

So Maximum difference: $£3.70 - £0.18 = £3.52$

Smallest Amount possible if using £2 coin : $£2 + 1p + 2p + 5p = £2.08$

Other 4 coins : $10p + 20p + 50p + £1 = £1.80$

So Minimum difference: $£2.08 - £1.80 = £0.28$