Problems of the Day 2020

1 A can holds 330 ml of pop.

Pop is sold in packs of 6

Karl buys 12 packs of pop.

How many litres of pop does he have?

6 × 330 = 1,980
1,980 × 12 = 23,760
23,760 ÷ 1,000 = 23.76

Karl has 23.76 litres of pop.

2 £290 is shared between 10 boys and 12 girls.

Each girl receives £15

12 × 15 = 180
290 − 180 = 110

How much money does each boy receive, if they each get the same amount of money?

110 ÷ 10 = 11   Each boy gets £11

3 Here is a sequence

2, 5, 9, 12, 2, 5, 9, 12, 2, 5, 9, 12, ...

What is the sum of the first 200 numbers in this sequence?

Explain your method.

2 + 5 + 9 + 12 = 28
28 × 50 = 1,400

White Rose Maths