Problems of the Day 2020

Day 18

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?

$6 \times 330 = 1{,}980$
$1{,}980 \times 12 = 23{,}760$
$23{,}760 \div 1{,}000 = 23.76$

Karl has 23.76 litres of pop.

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

Each girl receives £15

$12 \times 15 = 180$
$290 - 180 = 110$

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

$110 \div 10 = 11$ 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.

$2 + 5 + 9 + 12 = 28$
$28 \times 50 = 1{,}400$

White Rose Maths