

SOA Puzzle 34

Control Description Algebra

Solve the following 2 puzzles, obeying the rules below.

Rules:

- Each symbol has a different value (e.g. 1, 2, 3)
- All symbols are whole numbers
- Multiple symbols on the same space are added together
- You must follow the rules of BODMAS, e.g. if there is a multiplication, it must be done before addition

Puzzle 1: Easy

$$\square + \square + \square = 6$$

$$\cap + \square + \square = 12$$

$$\cap + \cap + \text{⌒} = 20$$

$$\cap + \square \times \text{⌒} = ?$$

Puzzle 2: Hard

$$\ominus \times \text{⬛} - \text{⊖} = 91$$

$$\text{⌒} + \text{⌒} + \ominus = 57$$

$$\text{⌒} - \text{⬛} \times \text{⬛} = -5$$

$$\ominus + \text{⬛} \times \text{⌒} = ?$$