

SOA Puzzle 34 - Solution

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

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

$$\wedge + \square + \square = 12$$

$$\wedge + \wedge + \text{⌚} = 20$$

$$\wedge + \square \times \text{⌚} = ?$$

$$\square = 2$$

$$\wedge = 8$$

$$\text{⌚} = 4$$

$$\blacksquare = 5$$

$$\text{⌚} = 10$$

$$\ominus = 7$$

Puzzle 2: Hard

$$\ominus \times \text{⌚} - \text{⌚} = 91$$

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

$$\text{⌚} - \blacksquare \times \blacksquare = -5$$

$$\ominus + \text{⌚} \times \text{⌚} = ?$$