






## Worksheet 2

### Using Negative Numbers

- 1 In a 5-question Science quiz, 4 marks are awarded for each correct answer and 2 marks are deducted for each incorrect answer. No mark is awarded or deducted for questions which are not attempted.  ,  ,  ,  and  took the quiz and the results are shown in this table.

	Number of correct answers	Number of incorrect answers	Not attempted
Ruby	2	2	1
Charles	1	3	1
Lulu	4	1	0
Ravi	2	3	0
Emma	1	4	0

Calculate the score of each student.

- (a) Ruby  $(4 \times 2) - (2 \times 2) = 8 - 4 = 4$
- (b) Charles  $(4 \times 1) - (2 \times 3) = 4 - 6 = -2$
- (c) Lulu  $(4 \times 4) - (2 \times 1) = 16 - 2 = 14$
- (d) Ravi  $(4 \times 2) - (2 \times 3) = 8 - 6 = 2$
- (e) Emma  $(4 \times 1) - (2 \times 4) = 4 - 8 = -4$

2 According to a website, the average temperature in the UK is about  $5^{\circ}\text{C}$  in the month of January. Find the average temperature of each of the following cities.

- (a) The average temperature in Bangkok, Thailand is  $19^{\circ}\text{C}$  higher than in the UK.

$$5 + 19 = 24^{\circ}\text{C}$$

- (b) The average temperature in Seoul, Korea is  $7^{\circ}\text{C}$  lower than in the UK.

$$5 - 7 = -2^{\circ}\text{C}$$

- (c) The average temperature in Beijing, China is  $9^{\circ}\text{C}$  lower than in the UK.

$$5 - 9 = -4^{\circ}\text{C}$$