Stage 8 End of Unit 1 Test

The tests and mark schemes have been written by the authors. These may not fully reflect the approach of Cambridge Assessment International Education.

Answers

1 **a** 15 **b** −8 **c** 14 **[3]**

2 **a** 8 **b** 18 **[2]**

3 2, 11 **[1]**

4 $200 = 2^3 \times 5^2$ **[2]**

5 **a** 40 **b** 1400 **[4]**

6 $3^5 \times 3^1 = 3^6$ so 243 × 3 = 729 **[1]**

7 1, 121, 49 **[1]**

8 **a** 5^9 **b** 5^3 **[2]**

9 **a** 64 = 4 × 4 × 4

b 5^3 = 125; 100 is between 64 and 125 so it is not a cube number. **[2]**

10 **a** 6 and −6 **b** −3 **[2]**

[TOTAL: 20 Marks]