Skillswise

Identifying sequences - answers

The answers are given in **bold**.

1. Write down the rule for each sequence.

    a. 8, 11, 14, 17

    Correct answer: **add three (+ 3)**

    b. 3, 6, 12, 24

    Correct answer: **multiply by two (× 2, or double)**

    c. 66, 63, 60, 57

    Correct answer: **subtract three (- 3)**

    d. 32, 16, 8, 4

    Correct answer: **divide by two (÷ 2, or halve)**

2. Fill in the gap in each sequence.

    a. Correct answer: 80, 40, **20**, 10, 5
        **The gap between the numbers halves each time, so at first it's 40 (80 - 40);
        then it's 20 (40 - 20); then 10 (20 - 10) and finally 5 (10 - 5).**

    b. Correct answer: 70, 65, **60**, 55, 50
        The numbers go down by 5 each step (- 5).

    c. 4, 5, 7, 10, **14**, 19
        **The gap between each number goes up by one step
        (+ 1, + 2, + 3, + 4, + 5)**

    d. 6, 10, **14**, 18, 22
        The numbers go up by four each step (+ 4)

BBC

Skillswise

Identifying sequences - answers

3. Given the rule and the first term of each sequence, continue each of these for three more terms.

   a. Add six: 1,…

   Correct answer: 1, **7, 13, 19**

   b. Multiply by three: 2,…

   Correct answer: 2, **6, 18, 54**

   c. Add nine: 3,…

   Correct answer: 3, **12, 21, 30**

   d. Subtract five: 27,…

   Correct answer: 27, **22, 17, 12**

BBC