Sequences Questions - The Answers

1. The rule for this sequence to double the number and add 1. What is the 3rd number in this sequence?

2, 5, **11**, 23

5 x 2 = 10

10 + 1 = 11

The 3rd number in this sequence is 11.

2. The rule for this sequence is to double the number and add 2. What is the 4th number in this sequence?

3, 8, 18, **38**

18 x 2 = 36

36 + 2 = 38

The 4th number in this sequence is 38.

3. What is the 2nd number in this sequence?

1, **4**, 7, 10

To find how much the sequence goes up by:

10 – 7 = 4

Working out the 2nd number in this sequence:

1 + 3 = 4

The 2nd number in this sequence is 4.

4. What is the 1st number in this sequence?

6, 12, 24, 48

To find out how much the sequence goes up by:

48 – 24 = 24, then 24 – 12 = 12, then 12 – 6 = 6

Working out the 2nd number in this sequence

12 – 6 = 6

The 1st number in this sequence is 6.

5. What is the 3rd number in this sequence?

27, 42, **72**, 132

To find out how much the sequence goes up by:

42 – 27 = 15, then 132 – 42 = 90. The number it goes up by doubles each time.

The 3rd number in this sequence is 72.

6. What is the 2nd number in this sequence?

36, **45**, 54, 63

To find out how much the sequence goes up by:

63 – 54 = 9

Working out the 2nd number in this sequence:

36 + 9 = 45

The 2nd number in this sequence is 45.

7. What is the 3rd number in this sequence?

102, 275, **448**, 623

To find out how much the sequence goes up by:

275 – 102 = 173

Working out the 3rd number in this sequence:

275 + 173 = 448

8. What do the numbers in this sequence go up by each time?

56, 62, 68, 74

62 – 56 = **6**

The sequence goes up by 6 each time.

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