

# Continue the Number Series

In each question, find the number that continues the series in the most sensible way and mark it on the answer sheet.

**Example** 2 4 6 8 [?]

**A** 16      **B** 11      **C** 10      **D** 9      **E** 12

**Answer** 10

**Solution** In this series, you add 2 each time. For other series, you might have to perform a different sort of operation (+, −, ×, ÷). There might also be two series involved: the first comprising the 1st, 3rd, 5th number etc. and the second comprising the 2nd, 4th, 6th etc.

22

27 26 28 25 29 24 30 [?]

**A** 33      **B** 29      **C** 25      **D** 23      **E** 31

23

4 8 11 15 18 [?]

**A** 21      **B** 20      **C** 25      **D** 22      **E** 28

24

28 32 25 27 22 22 19 17 16 [?]

**A** 15      **B** 13      **C** 12      **D** 14      **E** 11

25

20 23 27 32 38 [?]

**A** 45      **B** 48      **C** 46      **D** 39      **E** 51

Practise using the answer sheet layout to mark the correct answers for the questions above.

EXAMPLE	22	23	24	25	26	27	28
16 <input type="checkbox"/>	33 <input type="checkbox"/>	21 <input type="checkbox"/>	15 <input type="checkbox"/>	45 <input type="checkbox"/>	32 <input type="checkbox"/>	100 <input type="checkbox"/>	122 <input type="checkbox"/>
11 <input type="checkbox"/>	29 <input type="checkbox"/>	20 <input type="checkbox"/>	13 <input type="checkbox"/>	48 <input type="checkbox"/>	31 <input type="checkbox"/>	95 <input type="checkbox"/>	84 <input type="checkbox"/>
10 <input checked="" type="checkbox"/>	25 <input type="checkbox"/>	25 <input type="checkbox"/>	12 <input type="checkbox"/>	46 <input type="checkbox"/>	35 <input type="checkbox"/>	93 <input type="checkbox"/>	62 <input type="checkbox"/>
9 <input type="checkbox"/>	23 <input type="checkbox"/>	22 <input type="checkbox"/>	14 <input type="checkbox"/>	39 <input type="checkbox"/>	33 <input type="checkbox"/>	96 <input type="checkbox"/>	140 <input type="checkbox"/>
12 <input type="checkbox"/>	31 <input type="checkbox"/>	28 <input type="checkbox"/>	11 <input type="checkbox"/>	51 <input type="checkbox"/>	34 <input type="checkbox"/>	99 <input type="checkbox"/>	112 <input type="checkbox"/>

In the brackets write the numbers that continue the series in the most sensible way.

73. 21, 16, 28, 23, ( )

74. 47, 41, 36, 32, ( )

75. 18, 23, 21, 26, 24, 29, ( )

76. 38, 19, 32, 26, 26, 33, ( )

77. 41, 25, 39, 27, 36, 30, ( )

78. 3, 5, 9, 17, 33, ( )

## Continue the Number Series

In these questions the three numbers in each group are related in the same way. Find the number that completes the last group.

Example:

$$( 10 [23] 3 ) \quad ( 5 [16] 6 ) \quad ( 2 [ \_ ] 5 )$$

- Consider if you need to do + -  $\times$   $\div$  AND if you need to do more than one operation!
- So how is 23 made from 10 and 3? Hmm... double 10 = 20 and then add the 3!
- Does it work for the next set of brackets? Yes! Double 5 = 10 and add 6!
- So the answer the final one is: 9 because double 2 = 4 and add 5!

Now have a go.

$$( 4 [12] 2 ) \quad ( 10 [32] 6 ) \quad ( 16 [ \_ ] 5 )$$

$$( 6 [46] 20 ) \quad ( 2 [32] 15 ) \quad ( 7 [ \_ ] 10 )$$

$$( 12 [16] 8 ) \quad ( 6 [22] 20 ) \quad ( 15 [ \_ ] 13 )$$

$$( 16 [40] 8 ) \quad ( 11 [27] 5 ) \quad ( 4 [ \_ ] 11 )$$

$$( 10 [21] 5 ) \quad ( 4 [23] 13 ) \quad ( 21 [ \_ ] 9 )$$