

FACTORS ANSWERS

Learning Objective: To find pairs of factors and identify how many factors a number has.

Write all of the pairs of factors for the following numbers, then write in the space how many factors the number has. The first one has been done for you.

Remember to work methodically so you don't miss any pairs of factors out!

Which number has the most factors?

4 1 4 2 2 (Remember you only count a repeated factor once!)	5 1 5	6 1 6 2 3
Number of factors: 3	Number of factors: 2	Number of factors: 4
7 1 7	8 1 8 2 4	9 1 9 3 3
Number of factors: 2	Number of factors: 4	Number of factors: 3
10 1 10 2 5	11 1 11	12 1 12 2 6 3 4
Number of factors: 4	Number of factors: 2	Number of factors: 6

(Not all the consecutive numbers have been included for you to investigate...we haven't missed
some out by mistake!)

15 1 15 3 5	16 1 16 2 8 4 4	17 1 17
Number of factors: 4	Number of factors: 5	Number of factors: 2
18 1 18 2 9 3 6	19 1 19	20 1 20 2 10 4 5
Number of factors: 6	Number of factors: 2	Number of factors: 6
21 1 21 3 7	22 1 22 2 11	23 1 23
Number of factors: 4	Number of factors: 4	Number of factors: 2
24 1 24 2 12 3 8 4 6	25 1 25 5 5	The number <u>24</u> has the most factors.
Number of factors: 8	Number of factors: 3	