

Name:

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Factors

A factor is a whole number that divides exactly into another number.

Example:

The factors of 12 are 1, 2, 3, 4, 6, 12 - because all of these numbers divide into 12 with no remainder.

So, the number 12 has six factors.

Write the missing factor for each number.

The factors of 16 are 1, 2, 4, _____, 16

The factors of 30 are 1, 2, 3, 5, _____, 10, 15, 30

The factors of 45 are 1, 3, 5, _____, 15, 45

Circle the correct answers

Which of the following numbers is a factor of 16?

- a) 6 b) 7 c) 8 d) 9

Which number is a factor of both 18 and 24?

- a) 5 b) 6 c) 10 d) 12

Which set shows all the factors of 9?

- a) 1, 3, 9 b) 1, 2, 3, 9
c) 1, 9 d) 1, 3, 6, 9

What is the greatest factor that 20 and 30 have in common?

- a) 10 b) 15 c) 20 d) 30

Which number is not a factor of 72?

- a) 8 b) 9 c) 12 d) 11

What is the greatest common factor (GCF) of 36 and 60?

- a) 6 b) 12 c) 18 d) 24

Which of these two numbers have the most factors?

- 16 8 24 30

How many factors does 24 have? _____

What are the nine factors of 100?

Which three factors of 36 are not factors of 18?

Which of these numbers has the most factors?

- a) 21 b) 36 c) 42 d) 54

Which five numbers only have two factors?

- 5 7 9 12 13
17 21 24 27 29

What do we call numbers that have exactly two factors? _____