At the end of this lesson, you should be able to:
- ☐ Find the factors of a given number,
- ☐ Find the common factors of given numbers.

Numbers, Operations & Algebra

FACTORS

The **factors** of a number are the whole numbers that can divide the given number without leaving any remainder.

For example, **3 is a factor of 12** because it divides 12 evenly, meaning $12 \div 3 = 4$.

5 is not a factor of 12 because it does not divide 12 evenly, meaning $12 \div 5 = 2.4$ (*not a whole number*).

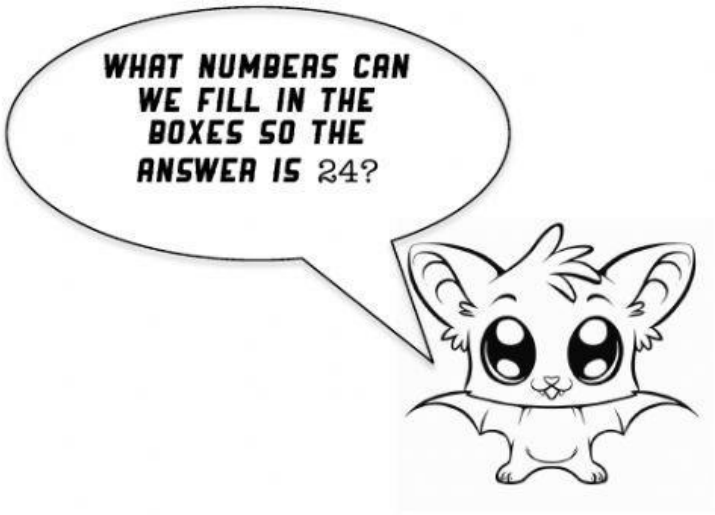
Example: How to find the factors of 24?

$1 \times \square = 24$

$2 \times \square = 24$

$3 \times \square = 24$

$4 \times \square = 24$



All the numbers in the boxes are ***factors of 24.***

So, the factors of 24 = ___, ___, ___, ___, ___, ___, ___ and ___.

Example: Find the **common factors** of 12 and 16.

$1 \times \square = 12$

$2 \times \square = 12$

$3 \times \square = 12$

$1 \times \square = 16$

$2 \times \square = 16$

$4 \times \square = 16$

The common factors of 12 and 16 are
_____, _____ and _____ .