

A multiple of a number is the product of the number and any whole number.

$$
\begin{array}{ll}
6 \times 0=0 & 6 \times 5=30 \\
6 \times 1=6 & 6 \times 6=36 \\
6 \times 2=12 & 6 \times 7=42 \\
6 \times 3=18 & 6 \times 8=48 \\
6 \times 4=24 & 6 \times 9=54
\end{array}
$$

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6 \times 2=12 & 6 \times 7=42 \\
6 \times 3=18 & 6 \times 8=48 \\
6 \times 4=24 & 6 \times 9=54 \\
\text { The multiples of } 6 \text { are: }
\end{array}
$$

$$
0,6,12,18,24,30,36,42,48,54, \ldots
$$

The Least Common Multiple is the smallest multiple that two or more numbers have in common.

To find the LCM of two or more numbers you can make a list of the multiples.

## Make a list of multiples:

## Find the LCM of 4 and 6.

Make a list of several multiples of the numbers. Multiples of 4:
$0,4,8,12,16,20,24,28,32, .$.
Multiples of 6:
$0,6,12,18,24,30,36, \ldots$
$4,8,12,16,20,24,28,32,36, \ldots$ 6, 12, 18, 24, 30, 36, ... Identify the common multiples of 4 and 6.
$4,8,12,16,20,24,28,32,36, \ldots$ 6, 12, 18, 24, 30, 36, ...

## Identify the common multiples of 4 and 6.

## $4,8,12,16,20,24,28,32,36, \ldots$

 6, 12, 18, 24, 30, 36, ... Identify the common multiples of 4 and 6.
## $4,8,12,16,20,24,28,32,36, \ldots$

 6, 12, 18, 24, 30, 36, ...
## Identify the common multiples of 4 and 6.

## $4,8,12,16,20,24,28,32,36, \ldots$

 6, 12, 18, 24, 30, 36, ...The common multiples are 12, 24 and 36.

The LCM of 4 and 6 is 12 .

$$
\text { LCM = } 12
$$

## Find the LCM of 15 and 9.

$15,30,45,60,75, \ldots$
$9,18,27,36,45,54, \ldots$

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$$
15,30,45,60,75, \ldots
$$

$9,18,27,36,45,54, \ldots$

## Find the common multiples of 15 and 9.

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15,30,45,60,75, \ldots
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Find the common multiples of 15 and 9.

## Find the LCM of 15 and 9.

$$
15,30,45,60,75, \ldots
$$

$9,18,27,36,45,54, \ldots$

## The LCM of 15 and 9 is 45.

$$
\mathrm{LCM}=45
$$

## Find the LCM of 6 and 9.

$6,12,18,24,30,36, \ldots$
$9,18,27,36,45,54, \ldots$

## Find the LCM of 6 and 9.

$6,12,18,24,30,36, \ldots$
$9,18,27,36,45,54, \ldots$

## Find the LCM of 6 and 9.

$6,12,18,24,30,36, \ldots$
$9,18,27,36,45,54, \ldots$

## Find the LCM of 6 and 9.

$6,12,18,24,30,36, \ldots$
$9,18,27,36,45,54, \ldots$

$$
\mathrm{LCM}=18
$$

## Find the LCM of 6 and 12.

$6,12,18,24,30,36, \ldots$
$12,24,36, \ldots$

## Find the LCM of 6 and 12.

$6,12,18,24,30,36, \ldots$
$12,24,36, \ldots$

## Find the LCM of 6 and 12.

$6,12,18,24,30,36, \ldots$
$12,24,36, \ldots$

## Find the LCM of 6 and 12.

$$
\begin{aligned}
& 6,12,18,24,30,36, \ldots \\
& 12,24,36, \ldots \\
& \text { LCM }=12
\end{aligned}
$$

## Find the LCM of 4, 6 and 8.

$4,8,12,16,20,24,28, \ldots$
$6,12,18,24,30,36, \ldots$ $8,16,24,32,40, \ldots$

## Find the LCM of 4, 6 and 8.

$4,8,12,16,20,24,28, \ldots$
$6,12,18,24,30,36, \ldots$ $8,16,24,32,40, \ldots$

## Find the LCM of 4, 6 and 8.

$4,8,12,16,20,24,28, \ldots$
$6,12,18,24,30,36, \ldots$ $8,16,24,32,40, \ldots$

LCM = 24

