Mathematics

# LCM and prime factors Lesson 8 of 8 

Downloadable resource

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## Try this



Find the first five common multiples of 12 and 9 .

Write each as a product of their prime factors.

## Connect

Explain how each strategy can help find the LCM.

| 15 | 15 | 15 | 15 |  | 15 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | 18 | 18 | 18 | 18 |  |  |

$18,36,54,72 \bigcirc 108 \ldots$

$$
15,30,45,60,75(90) \ldots
$$



Connect

15
$90=2 \times 3 \times 3 \times 5$
18

## Independent task

Fill in the Venn diagrams. Find the LCM in each case.


## Independent task

Fill in the Venn diagrams. Find the LCM in each case.


## Independent task

Find the lowest common multiple of 5 and 12.

Find the lowest common multiple of 144 and 264.

## Explore

The prime factors of two numbers are in the Venn diagram. Find:


