

Types of number *key words*

ANSWERS

A Fill in the missing words from the word bank.

Word bank

Two words are not needed.

common

composite

cube

even

factor

highest

index

lowest

multiple

prime

product

root

square

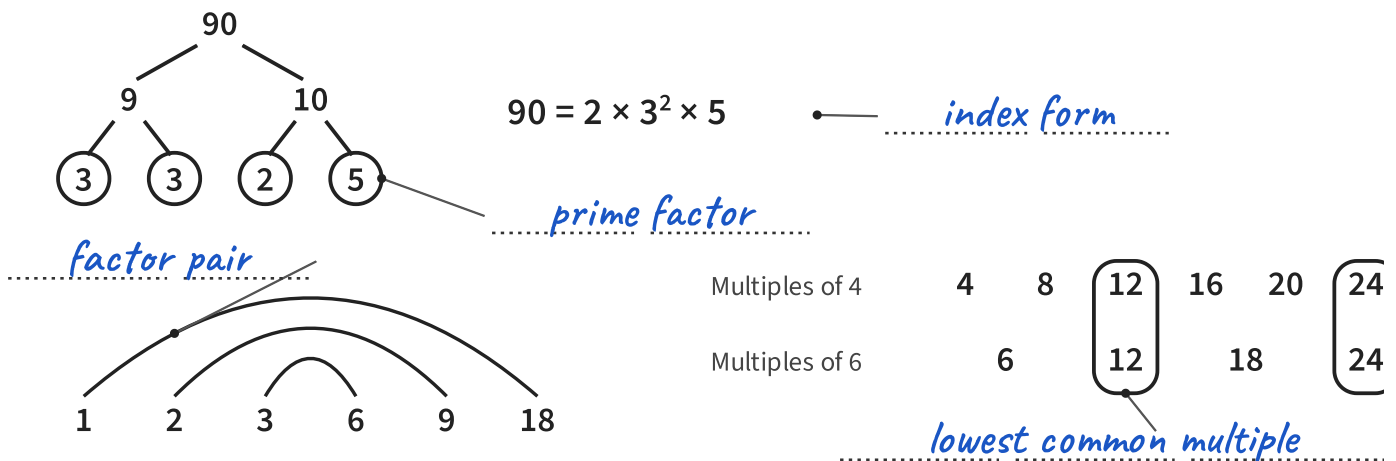
A factor of a number divides into it exactly. A multiple of a number is in its times table. A prime number has exactly two factors, 1 and itself. A common factor of 8 and 20 is a factor of both, such as 4.

The highest common factor of 12 and 18 is 6. The lowest common multiple of 12 and 18 is 36.

Multiplying a number by itself gives a square number, such as $7 \times 7 = 49$, and 9 is the square root of 81. Multiplying three of the same number, such as $4 \times 4 \times 4 = 64$, gives a cube number.

Writing $60 = 2 \times 2 \times 3 \times 5$ writes 60 as a product of prime factors. In index form this is $2^2 \times 3 \times 5$.

B Label the diagram. No word bank this time. Each label gives the first letter.



C Each sentence uses the wrong key word. Cross it out and write the right word.

1 7 is a multiple of 21 because $21 \div 7 = 3$.

factor

2 27 is a square number because $3 \times 3 \times 3 = 27$.

cube

3 The lowest common factor of 16 and 24 is 8.

highest

4 Every factor of 5 ends in 0 or 5.

multiple