

Name: Class:

Prime factorization

a. What is the prime factorization of 8?

2 × 4

1 × 2 × 4

2 × 2 × 2

b. What is the prime factorization of 72?

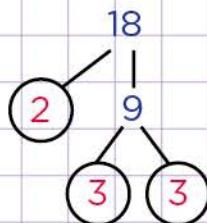
2 × 2 × 2 × 3 × 3

2 × 2 × 3 × 6

2 × 6 × 6

c. Use a number tree to find the prime factors then write the prime factorization expression of each number?

Example of 18 :



$$18 = 2 \times 3 \times 3$$

32

An empty rectangular box with a diamond-shaped top-left corner containing the number 32. This is intended for students to draw a number tree for the prime factorization of 32.

96

An empty rectangular box with a diamond-shaped top-left corner containing the number 96. This is intended for students to draw a number tree for the prime factorization of 96.

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What is the prime factorization of 72?

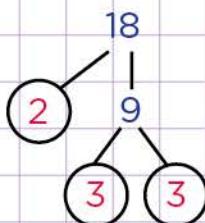
2 × 2 × 2 × 3 × 3

2 × 2 × 3 × 6

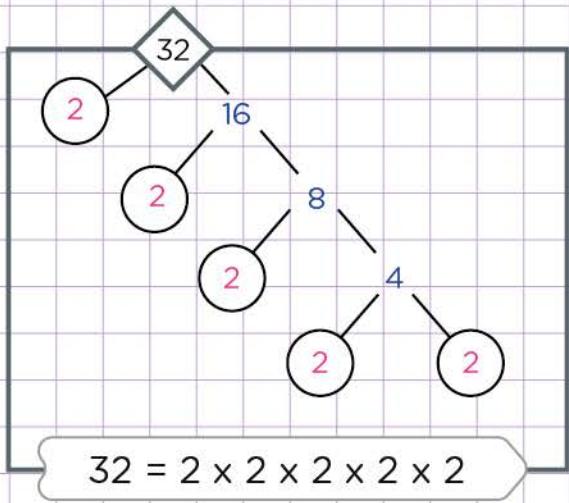
2 × 6 × 6

Use a number tree to find the prime factors then write the prime factorization expression of each number?

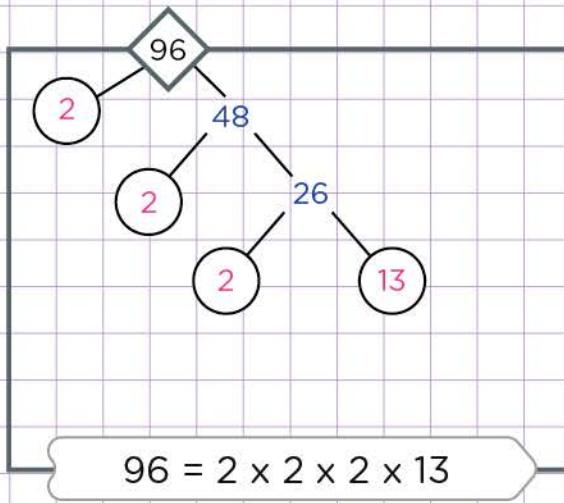
Example of 18 :



$$18 = 2 \times 3 \times 3$$



$$32 = 2 \times 2 \times 2 \times 2 \times 2$$



$$96 = 2 \times 2 \times 2 \times 13$$