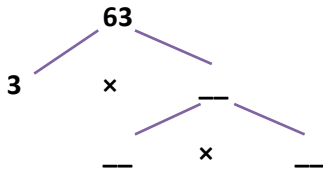


Prime Factors - II

1. Complete the factor tree to find the prime factors of 63.



Solution:

$$63 = _ \times _ \times _$$

2. Use additional paper to make a factor tree. Find the prime factors.

- a. 36
b. 38
c. 40
d. 42

Solution:

- a. _____
b. _____
c. _____
d. _____

- e. 48
f. 52
g. 56
h. 60

Solution:

- e. _____
f. _____
g. _____
h. _____

3. Timothy wants to divide 72 blocks into as many groups as possible. Each group of blocks should have at least 2 blocks. Help him divide the blocks into the smallest groups possible by using a factor tree.

Solution:

4. Prime factors of 24 and 18 are given below:

$$24 = 2 \times 2 \times 2 \times 3 \text{ and } 18 = 2 \times 3 \times 3$$

Find out the biggest number that can divide both 24 and 18. Explain.

Solution:

5. Find the prime factors of 64 and 72. Use the prime factors to find out the biggest number that can divide both the numbers.

Solution:

6. Which of these are the prime factors of 44?

- A. $2 \times 2 \times 11$ C. 4×11
B. $2 \times 2 \times 2 \times 7$ D. $11 \times 2 \times 3$

Solution:

7. Explain how you can use the prime factors of two numbers to find out the biggest common divisor of both the numbers.

Solution: