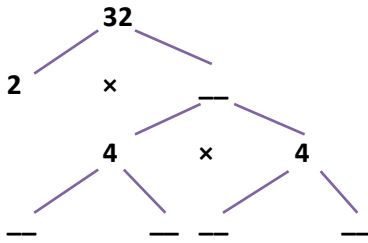


Prime Factors - III

1. Complete the factor tree to find the prime factors of 32.



Solution:

$$32 = _ \times _ \times _ \times _ \times _ \times _$$

2. There are 10 balls in a box. Jacob wants to divide the balls into two unequal groups that cannot be divided into smaller groups of equal number of balls. How can Jacob divide the balls into groups?

Solution:

3. Prime factors of an unknown number are 2, 2, 3, and 7. Ron wants to find this unknown number. Help find Ron the unknown number.

Solution:

4. Prime factors of 48 and 56 are given below:
 $48 = 2 \times 2 \times 2 \times 2 \times 3$ and $56 = 2 \times 2 \times 2 \times 7$
 Find out the biggest number that can divide both 48 and 56. Explain.

Solution:

5. Audrey imagined a 2-digit number that has a 0 at one's place. She says that the two prime factors of this number are 2 and 5. Is she correct? Explain.

Solution:

6. Two prime factors of a number are 3 and 7.

What number is it?

- A. 14 C. 42
 B. 28 D. 56

Solution:

7. A number is multiplied by 7. It becomes divisible by 14. The number can always be divided by:

- A. 2 C. 4
 B. 3 D. 5

Solution: