

9. The prime factorizations of 36 and 90 are:

$$36 = 2 \cdot 2 \cdot 3 \cdot 3$$

$$90 = 2 \cdot 3 \cdot 3 \cdot 5$$

What is the greatest number of times:

- 2 appears in any one factorization?
- 3 appears in any one factorization?
- 5 appears in any one factorization?
- Fill in the blanks to find the LCM of 36 and 90:

$$\text{LCM} = \_ \cdot \_ \cdot \_ \cdot \_ \cdot \_ = \_$$

13. The prime factorizations of 60 and 90 are:

$$60 = 2 \cdot 2 \cdot 3 \cdot 5$$

$$90 = 2 \cdot 3 \cdot 3 \cdot 5$$

- Circle the common prime factors of 60 and 90.
- What is the GCF of 60 and 90?

In 17 - 23 odd, find the first eight multiples of each number.

17. 4

21. 8

19. 11

23. 20

In 25 - 47 odd, find the LCM of the given numbers.

25. 3, 5

37. 16, 20

27. 8, 12

39. 30, 50

29. 5, 11

41. 35, 45

31. 4, 7

43. 100, 120

33. 3, 4, 6

45. 6, 24, 36

35. 2, 3, 10

47. 5, 12, 15

In 49 - 61 odd, find the GCF of the given numbers.

49. 4, 6

57. 18, 96

51. 9, 12

59. 28, 42

53. 22, 33

61. 16, 51

55. 15, 30

87. NURSING A nurse is instructed to check a patient's blood pressure every 45 minutes and another is instructed to take the same patient's temperature every 60 minutes. If both nurses are in the patient's room now, how long will it be until the nurses are together in the room once again?

89. PICNICS A package of hot dogs usually contains 10 hot dogs and a package of buns usually contains 12 buns. How many packages of hot dogs and buns should a person buy to be sure that there are equal numbers of each?