

LESSON 3

Factor Pairs

The factor pairs of any whole number greater than 2 can be found using the prime factorization.

Example: Find the factor pairs for the number 30

1 x 30 is a pair since 1 is a factor of all numbers.

Next write the prime factorization of 30 and inspect every combination of primes.

$$30 = 2 \times 3 \times 5$$

2 with the 3

$$\underline{\underline{2 \times 3}} \times 5 \text{ gives } 6 \times 5$$

3 with the 5

$$2 \times \underline{\underline{3 \times 5}} \text{ gives } 2 \times 15$$

2 with the 5

$$\underline{\underline{2}} \times 3 \times \underline{\underline{5}} \text{ gives } 3 \times 10$$

Therefore:

30

1	30
2	15
3	10
5	6

List The Factor Pairs For The Following Composite Numbers

4

6

8

9

10

14

15

21

22

25

26

27

33

34

35

38

List The Factor Pairs For The Following Composite Numbers

39

46

49

51

55

57

58

62

65

69

74

77

82

85

86

87

List The Factor Pairs For The Following Composite Numbers

91

93

94

95

106

111

115

118

119

121

122

123

125

129

134

141

List The Factor Pairs For The Following Composite Numbers

12

16

18

20

28

32

44

45

50

52

63

68

List The Factor Pairs For The Following Composite Numbers

75

76

81

92

98

99

116

117

124

147

148

153

List The Factor Pairs For The Following Composite Numbers

24

30

40

42

54

56

64

66

70

78

88

102

List The Factor Pairs For The Following Composite Numbers

36

48

80

100

60

72

84

96
