Name _____ Date _____

Factors and Multiples: Factor Pairs, Prime and Composite Numbers

Directions: A factor pair is two whole numbers that multiply to make a number. Multiply a number by 1, 2, 3 and so on to get its multiples.

1. Two whole numbers that multiply to make 36 are a factor pair of 36. In one factor pair of 36, one of the numbers is 4. What is the other number?

_____

2. The number 24 has four factor pairs. Type the missing factor in each pair.
The factor pairs of 24 are 1 and 24, 2 and _____, 3 and _____, and 4 and _____.

3. Which list shows all the factors of 20?

A. 1, 2, 5, 10, 20
B. 1, 2, 4, 5, 10, 20
C. 2, 4, 5, 10
D. 20, 40, 60, 80

4. Mr. Haddad sets up 30 chairs in equal rows with no chairs left over. How many chairs could be in each row?

A. 8
B. 6
C. 4
D. 7

5. One multiple of 9 is greater than 50 and less than 60. What is it?

_____

6. 3 is a factor of 27. Which sentence is also true?

A. 27 is a multiple of 3.
B. 3 is a multiple of 27.
C. 27 is a factor of 3.
D. 27 is a prime number.

7. How many factors does the prime number 13 have?

_____ factors

8. Which of these numbers is prime?

A. 35
B. 39
C. 21
D. 29

9. The number 51 is composite, because $3 \times ? = 51$. What is the missing factor?

_____

10. A choir has more than 40 singers and fewer than 50 singers. The singers can stand in rows of 6 with no one left over. They can also stand in rows of 8 with no one left over. How many singers are in the choir?

_____ singers