Practice •••••• Working with Common Factors mmon factors are numbers that are factors of two different products. The factors 1.2.3.

Common factors are numbers that are factors of two different products. The factors 1,2,3, and 6 are common to 12 and 18.

- (1), 12, 2), 6, 3, 4)
 Factors of 12
 Directions: Circle the common factors for each pair of numbers.
 1. 8 (1, 2, 4, 8)
 5. 10 (1, 2, 5, 10)
 - 12 (1, 2, 3, 4, 6, 12)20 (1, 2, 4, 5, 10, 20)2. 6 (1, 2, 3, 6)
8 (1, 2, 4, 8)6. 12 (1, 2, 3, 4, 6, 12)
24 (1, 2, 3, 4, 6, 8, 12, 24)3. 10 (1, 2, 5, 10)
15 (1, 3, 5, 15)7. 8 (1, 2, 4, 8)
10 (1, 2, 5, 10)4. 16 (1, 2, 4, 8, 16)
24 (1, 2, 3, 4, 6, 8, 12, 24)8. 24 (1, 2, 3, 4, 6, 8, 12, 24)
28 (1, 2, 4, 7, 14, 28)

Directions: List the factors for each number in the problems below. Circle the common factors.

9.	6 (1, 2, 3, 6)	14.	24
	10 (,,,)		30
10.	9 (,,)	15.	32
	18 (,,,,,)		16
11.	12	16.	48
	16		36
12.	7	17.	36
	14		18
13.	10	18.	18
	30		12

Directions: List the factors for each number. Circle the common factors for each set of three numbers.

19.	6 (1, 2, 3, 6)	2	21.	10
	12 (,,,,,,, _)		15
	18 (,,,,,,, _)		25
20.	9	2	2.	16
	12			24
	24			36
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A *multiple* is the product of two factors.

A *common multiple* is a number that is a product of the same factor as another number. To find the multiples of a number, multiply that number by 1, then 2, then 3, etc. Here are the first six multiples of 4 and 6.

4	(4,	8, 1	2, 1	6, 2	20, 2	24)
6	(6,	12,	18,	24,	30,	36)

The numbers 12 and 24 are common multiples of both 4 and 6. **Directions:** Find and circle the common multiples of the pairs of factors named below.

1.	3 (3, 6, 9, 12, 15, 18)	4.	6 (6, 12, 18, 24)
	2 (2, 4, 6, 8, 10, 12, 14, 16, 18)		8 (8, 16, 24)
2.	4 (4, 8, 12, 16, 20, 24) 2 (2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24)	5.	9 (9, 18, 27, 36) 6 (6, 12, 18, 24, 36)
3.	9 (9, 18, 27, 36) 4 (4, 8, 12, 16, 20, 24, 28, 32, 36)	6.	12 (12, 24, 36) 9 (9, 18, 27, 36)

Directions: List the first six multiples for each of the sets of numbers named below. Circle the common multiples.

7.	9 (9, 18, 27, 36, 45, 54)	9.	10 (,,,,,)
	3 (,,,,,)		5 (,,,,,)
8.	12 (,,,,)	10.	3 (,,,,,)
	10 (,,,,,)		12 (,,,,,)