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 )
(1), 18, (2), 9, (3), (6)

Factors of 12
Factors of 18
Directions: Circle the common factors for each pair of numbers.

1. $8(1,2,4,8)$
$12(1,2,3,4,6,12)$
2. $6(1,2,3,6)$
$8(1,2,4,8)$
3. $10(1,2,5,10)$

20 (1, 2, 4, 5, 10, 20)
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. $6(1,2,3,6)$

10 ( , $\qquad$ , __ ) )
14. 24

30
15. 32
10. 9 $\qquad$ , $\qquad$ , $\qquad$ )
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
11. 12
16. 48

16
36
12. 7
17. 36

14
18
13. 10
18. 18

30
Directions: List the factors for each number. Circle the common factors for each set of three numbers.


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.
$4(4,8,12,16,20,24)$
$6(6,12,18,24,30,36)$

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

31 $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ )

5 $\qquad$ , $\qquad$ , $\qquad$ , __ , $\qquad$ )
8. 12 $\qquad$ , $\qquad$ , $\qquad$ , )
10. $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ )

10 $\qquad$ , __ , $\qquad$
$\qquad$ , $\qquad$ , $\qquad$ )

2 $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
$\qquad$

