Name: _____

Least Common Multiples

Find the least common multiple (LCM) of 8 and 12.

The multiples of 8 are: 8, 16, **24**, 32, 40, **48** ...

The multiples of 12 are: 12, **24**, 36, **48**, 60, 72 ...

The common multiples of 8 and 12 are highlighted in **bold.**

The least common multiple of 8 and 12 is **24**.

Find the LCM of 3 and 9.

The multiples of 3 are: _____, _____, _____, _____, _____, _____, _____, _____, _____ ...

The multiples of 9 are: _____, _____, _____ ...

Circle the common multiples above.

The LCM of 3 and 9 is: _____

Find the LCM of 6 and 8.

The multiples of 6 are: _____, _____, _____, _____, _____, _____, _____, _____ ...

The multiples of 8 are: _____, _____, _____, _____, _____, _____, _____ ...

Circle the common multiples above.

The LCM of 6 and 8 is: _____

Find the LCM of 7 and 8.

The multiples of 7 are: _____, _____, _____, _____, _____, _____, _____, _____ ...

The multiples of 8 are: _____, _____, _____, _____, _____, _____, _____ ...

Circle the common multiples above.

The LCM of 7 and 8 is: _____

Name: _____

Least Common Multiples

Find the least common multiple (LCM) of 2 and 3.

The multiples of 2 are: **2, 4, 6, 8, 10, 12, 14, 16, 18...**

The multiples of 3 are: **3, 6, 9, 12, 15, 18....**

The common multiples of 2 and 3 are: **6, 12, 18...**

The least common multiple of 2 and 3 is **6**.

Find the LCM.

a. 3 and 8

LCM = _____

b. 4 and 5

LCM = _____

c. 10 and 40

LCM = _____

d. 3 and 10

LCM = _____

e. 7 and 9

LCM = _____

f. 6 and 18

LCM = _____

g. 6 and 8

LCM = _____

h. 4 and 9

LCM = _____

i. 6 and 9

LCM = _____

j. 8 and 12

LCM = _____

k. 6 and 5

LCM = _____

l. 8 and 10

LCM = _____

Name: _____

Least Common Multiples

Find the least common multiple (LCM) of 2 and 3.

The multiples of 2 are: **2, 4, 6, 8, 10, 12, 14, 16, 18 ...**

The multiples of 3 are: **3, 6, 9, 12, 15, 18 ...**

The common multiples of 2 and 3 are: **6, 12, 18 ...**

The least common multiple of 2 and 3 is **6**.

Find the LCM.

a. 4 and 12

LCM = _____

b. 5 and 7

LCM = _____

c. 8 and 20

LCM = _____

d. 3 and 6

LCM = _____

e. 5, 7 and 10

LCM = _____

f. 4, 5, and 6

LCM = _____

g. Is it possible to list all of the multiples of 12? Explain.

_____

_____

h. Explain the difference between a multiple and a factor.

_____

_____

_____

Name: _____

Greatest Common Factor

When you find all the factors of two or more numbers, and you find some factors are the same ("common"), the largest of those common factors is the **Greatest Common Factor (GCF)**.

What are the factors of 12?	1, 2, 3, 4, 6, and 12
What are the factors of 20?	1, 2, 4, 5, 10, and 20
Which are the common factors?	1, 2, and 4
What is the GCF?	4

1. Find the GCF of 8 and 12.

List the factors of 8. _____ List the factors of 12. _____

List the common factors. _____ What is the GCF? _____

2. Find the GCF of 15 and 20.

List the factors of 15. _____ List the factors of 20. _____

List the common factors. _____ What is the GCF? _____

3. Find the GCF of 21 and 35.

List the factors of 21. _____ List the factors of 35. _____

List the common factors. _____ What is the GCF? _____

4. Find the GCF of 6 and 18.

List the factors of 6. _____ List the factors of 18. _____

List the common factors. _____ What is the GCF? _____

Name: _____

Greatest Common Factor

When you find all the factors of two or more numbers, and you find some factors are the same ("common"), the largest of those common factors is the **Greatest Common Factor (GCF)**.

What are the factors of 12?	1, 2, 3, 4, 6, and 12
What are the factors of 20?	1, 2, 4, 5, 10, and 20
Which are the common factors?	1, 2, and 4
What is the GCF?	4

Find the GCF of each pair of numbers.

a. 6 and 15 - _____ b. 15 and 30 - _____ c. 9 and 12 - _____

d. 4 and 7 - _____ e. 8 and 10 - _____ f. 3 and 9 - _____

g. 21 and 35 - _____ h. 24 and 32 - _____ i. 15 and 25 - _____

j. 11 and 44 - _____ k. 20 and 30 - _____ l. 4 and 6 - _____

m. 9 and 27 - _____ n. 14 and 16 - _____ o. 5 and 11 - _____

p. 18 and 24 - _____ q. 3 and 37 - _____ r. 7and 63 - _____

Divisibility Rules (A)

Circle the numbers that are divisible by the number given.

Divisible by 5?

11	22	31	28	84	44	81	44
14	66	93	65	67	80	93	52
23	28	76	24	64	64	49	60

Divisible by 10?

12	43	96	37	43	62	83	70
29	49	88	71	93	40	52	30
71	20	40	15	71	59	30	43

Divisible by 4?

12	44	21	89	61	37	13	66
63	58	53	60	64	85	19	84
25	21	16	71	65	60	79	93

Divisible by 3?

94	94	36	64	21	91	48	43
74	90	23	18	75	60	25	67
91	90	12	19	69	32	48	89

Divisible by 6 and 8?

99	72	66	57	67	50	88	10
77	36	17	86	17	72	38	76
12	77	60	67	13	11	97	70