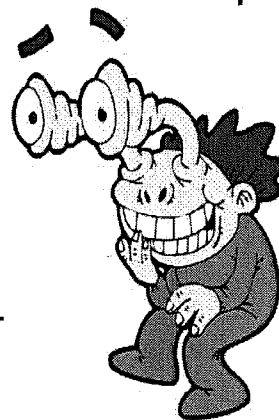#3

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. 7 and 63 - _____

#3

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 of 3 and 4.

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

The multiples of 4 are: _____, _____, _____, _____, _____, _____, _____ ...

The common multiples of 3 and 4 are: _____ and _____

The LCM of 3 and 4 is: _____

Find the LCM.

a. 2 and 7

LCM = _____

b. 4 and 10

LCM = _____

c. 4 and 5

LCM = _____

d. 6 and 10

LCM = _____

e. 4 and 12

LCM = _____

f. 6 and 18

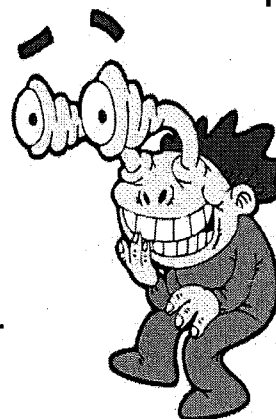LCM = _____

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 - **3**   b. 15 and 30 - **15**   c. 9 and 12 - **3**

d. 4 and 7 - **1**   e. 8 and 10 - **2**   f. 3 and 9 - **3**

g. 21 and 35 - **7**   h. 24 and 32 - **8**   i. 15 and 25 - **5**

j. 11 and 44 - **11**   k. 20 and 30 - **10**   l. 4 and 6 - **2**

m. 9 and 27 - **9**   n. 14 and 16 - **2**   o. 5 and 11 - **1**

p. 18 and 24 - **6**   q. 3 and 37 - **1**   r. 7 and 63 - **7**

ANSWER KEY

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 of 3 and 4.

The multiples of 3 are: <u>3, 6, 9, 12, 15, 18, 21, 24, 27</u>...

The multiples of 4 are: <u>4, 8, 12, 16, 20, 24, 28</u> ...

The common multiples of 3 and 4 are: <u>12</u> and <u>24</u>

The LCM of 3 and 4 is: <u>12</u>

Find the LCM.

a. 2 and 7

LCM = <u>14</u>

b. 4 and 10

LCM = <u>20</u>

c. 4 and 5

LCM = <u>20</u>

d. 6 and 10

LCM = <u>30</u>

e. 4 and 12

LCM = <u>12</u>

f. 6 and 18

LCM = <u>18</u>