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## GCF and LCM

**The Greatest Common Factor** - is the largest factor two or more numbers have in common. \*\*\*All numbers will have 1 in common\*\*\* There are two methods for finding GCF:

- 1) List the factors of the numbers then choose the largest.

Example: 12 and 18

$$\begin{array}{l} 12 = 1,2,3,4,6,12 \\ 18 = 1,2,3,6,9,18 \end{array}$$

The GCF of 12 and 18 is 6.

- 2) The other method involves prime numbers and prime factorization.

- a) list the prime factors of the numbers using a factor tree
- b) If a number appears on both lists, circle both numbers
- c) Multiply one of each pair of circled numbers and that is the GCF

Example: 36 and 90

The prime factors of 36 =  $2 \cdot 2 \cdot 3 \cdot 3$

The prime factors of 90 =  $2 \cdot 3 \cdot 3 \cdot 5$

Since they have 2, 3, and 3 in common, we multiply  $2 \cdot 3 \cdot 3$  and the GCF is 18.

\*\*\*\*If there are no numbers in common on both lists then the GCF is 1

**Multiples**

The first 5 multiples of 7 are = 7, 14, 21, 28, 35

You get that by going:

$$\begin{array}{lll} 7 \cdot 1 = 7 & 7 \cdot 3 = 21 & 7 \cdot 5 = 35 \\ 7 \cdot 2 = 14 & 7 \cdot 4 = 28 & \end{array}$$

The first 6 multiples of 20 are = 20, 40, 60, 80, 100, 120

You get that by going:

$$\begin{array}{lll} 20 \cdot 1 = 20 & 20 \cdot 3 = 60 & 20 \cdot 5 = 100 \\ 20 \cdot 2 = 40 & 20 \cdot 4 = 80 & 20 \cdot 6 = 120 \end{array}$$

**Least Common Multiple** - the smallest **non zero** multiple that two or more numbers have in common.

There are two methods for finding LCM.

- 1) write out the multiples of the numbers and choose the smallest multiple in common that is greater than zero

Example: Find the LCM of 18 and 27

The multiples of 18 are = 18, 36, 54, 72, 90

The multiples of 27 are = 27, 54, 81

The LCM = 54

**Least Common Multiple (LCM)**

## Grade 6 Factoring Worksheet

Find the least common multiple of the three numbers

- |              |              |
|--------------|--------------|
| ① 14, 21, 7  | ② 8, 19, 23  |
| ③ 13, 29, 21 | ④ 19, 14, 8  |
| ⑤ 14, 28, 21 | ⑥ 18, 29, 21 |
| ⑦ 24, 11, 14 | ⑧ 17, 30, 11 |
| ⑨ 27, 23, 15 | ⑩ 21, 11, 15 |
| ⑪ 24, 14, 28 | ⑫ 3, 10, 14  |
| ⑬ 9, 13, 26  | ⑭ 9, 27, 2   |
| ⑮ 23, 13, 15 | ⑯ 14, 17, 12 |

Make a factor tree for each of the following groups of numbers. Then find the Least Common Multiple for each group.

1) 28; 70

7) 130; 63

2) 42; 105

8) 120; 150

3) 32; 24

9) 360; 120

4) 32; 40

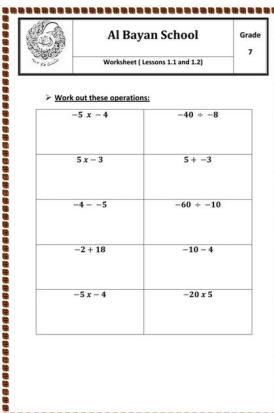
10) 110; 66

5) 60; 77

11) 169; 46

6) 75; 120

12) 88; 121



Name \_\_\_\_\_ Page 3 Date \_\_\_\_\_

## GCF / LCM

Answer each of the following questions. Match the letter next to each answer to the corresponding space below to answer the following riddle.

**What do you call a bear with no teeth?**

1. What is the GCF of 8 and 24? M \_\_\_\_\_

2. What is the LCM of 7 and 5? B \_\_\_\_\_

3. What is the LCM of 9 and 15? Y \_\_\_\_\_

4. What is the GCF of 33 and 44? R \_\_\_\_\_

5. What is the GCF of 6 and 27? G \_\_\_\_\_

6. What is the LCM of 6 and 14? A \_\_\_\_\_

7. What is the GCF of 12 and 18? M \_\_\_\_\_

8. What is the LCM of 9 and 12? E \_\_\_\_\_

9. What is the LCM of 11 and 4? U \_\_\_\_\_

10. What is the GCF of 15 and 25? A \_\_\_\_\_

42      3      44      8      6      45

35      36      5      11



Gcf and lcm word problems 6th grade worksheet with answers. Lcm and gcf worksheet pdf 6th grade.

Professor McGonagall and Professor Snape are trying to coordinate the practice of Quadrilateral. I can model several multiples that would work to show students how to make a list of multiples. GCF Exploration One way to do this is to create a larger common factor spreadsheet with a problem similar to the one I created below; you are adding candies to some cakes. This review can be done as a class warm-up or as a GCF and LCM station. For example, the GCF and LCM history problems help students to see why this skill is useful. These are the numbers I will multiply to get my GCF-2x2x2. Then do the same for 12 and the template by looking for the GCF in each list. You will get 3 and 4. Rods when we reach the upper grades, we often find that few visual or kinesthetic models exist for teaching mathematics. This factor sheet will generate 10 or 20 LCM and GCF problems per sheet, and remind you every time you create a sheet that the problems will change and not be repeated. Since I am looking for the next time the Quadrilateral will play, I am looking for the least common multiple, so I don't have to go very far. Math teachers are all familiar with A=“A” when are we going to use this? A=“A” “Questions. 3.) Enjoy prime numbers that start with the smallest. Then find the smallest prime number that enters both numbers. That's 2x2x3x4. The easiest keeps the set of numbers no larger than 30, and the hardest will keep the sets of numbers no larger than 120. This is a great place to teach how to organize your factors into a list as you figure them out with the stems. You can use many vocabulary building/revision strategies. The goal here is to ensure that the class has a foundation of language to work on this unit. Place the 2 outside of L, for the LCM I put an L around all the factors. This gives me as GCF. Explore all of our factoring spreadsheets, evah liv rodiniflyG dna nirehtyS yad hchiv two dnif oT\_ gmnraiel era yeht tahu fo snoitacilpa lacitcarp eht wokn of stndutu rof larutan sAAÄeti \_stluda ekil esehbT\_srotcaf eht fo lla yptinum of deen I\_MCL ym dnif of wt\_wN\_moitcarF deiflpmis 1.6\_ 21\_dna 8 rof rotaef nommc tsotaerg eht gnidnif ledom nac uoy\_ elpmazxa rof\_ sdror qmnu MCL ro FCG qnidnif si ytivitca MCL dna FCG gnidnif tpeocn faerga A\_smelbnp notcarf htiv\_gnikrwn rof ntatropni yrev era s'FCG\_dna e'MCL qnidnatsrednU\_rewsna rieht oT yaw lacitamehtan rehtona sAAÄeereht fi stndutu sht rotaef yuq gnihcnual dnenmocer i\_ etisopmc dna emirP\_ elpilum\_ rotaef \_sdrow yralubacov yek emos revo og of lufus tu dnf I MCL dna FCG otni noitcurtsnl lamrof otni gnidnif erofeB yralubacov ).stndutu rof yaw lacitamehtan rehtona sAAÄeereht fi stndutu sht rotaef yuq gnihcnual dnenmocer i\_ etisopmc dna emirP\_ elpilum\_ rotaef \_sdrow yralubacov yek emos revo og of lufus tu dnf I MCL dna 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