Least Common Multiple and Greatest Common Factor

Least Common Multiple

1. Find the LCM of 4 and 6.

2. Find the LCM of 8 and 12.

3. Find the LCM of 4, 6, and 9.

Greatest Common Factor

The Long Way
Find the GCF of 24 and 36

Find the GCF

1. 24 and 36

2. 60 and 75

3. 48, 72, and 120

You Try:

1. Find the LCM of 6 and 9.

Find the GCF

2. 81 and 27

3. 64 and 96

4. 45, 27, and 63

5. Find the LCM of 7 and 4.

6. Find the LCM of 5, 6, and 12.

Least Common Multiple and Greatest Common Factor

Least Common Multiple

1. Find the LCM of 4 and 6.

4: 4, 8, (12), 16, 20 . . .

6: 6, (12), 18, 24 . . .

2. Find the LCM of 8 and 12.

8: 8, 16, (24), 32, 40

12: 12, (24), 36, 48

3. Find the LCM of 4, 6, and 9.

4: 4, 8, 12, 16, 20, 24, 28, 32, (36), 40

6: 6, 12, 18, 24, 30, (36), 42

9: 9, 18, 27, (36), 45, 54

Greatest Common Factor

The Long Way

Find the GCF of 24 and 36

24
1 x 24
2 x (12)
3 x 8
4 x 6

36
1 x 36
2 x 18
3 x (12)
4 x 9

6 x 6

Find the GCF

1. 24 and 36

2 | 24 36
2 | 12 18
3 | 6 9
2 3

GCF = 12

2. 60 and 75

5 | 60 75
3 | 12 15
4 5

GCF = 15

3. 48, 72, and 120

2 | 48 72 120
2 | 24 36 60
3 | 12 18 30
2 | 4 6 10
2 3 5

GCF = 24

You Try:

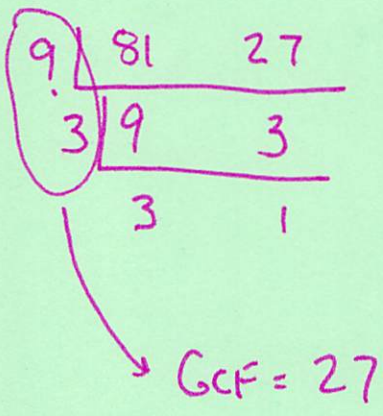
1. Find the LCM of 6 and 9.

6: 6, 12, (18), 24, 30 ...

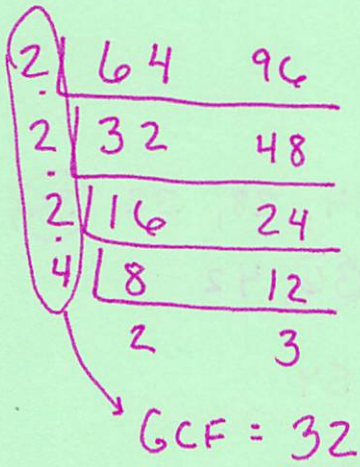
9: 9, (18), 27, 36 ...

Find the GCF

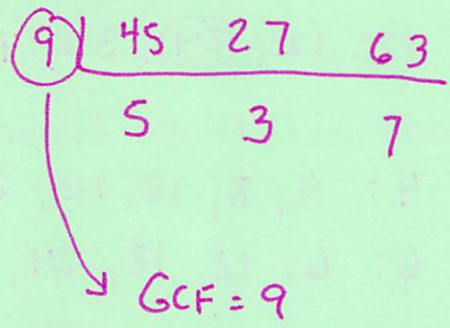
2. 81 and 27



3. 64 and 96



4. 45, 27, and 63



5. Find the LCM of 7 and 4.

7: 7, 14, 21, (28), 35, ...

4: 4, 8, 12, 16, 20, 24, (28), 32 ...

6. Find the LCM of 5, 6, and 12.

5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, (60)

6: 6, 12, 18, 24, 30, 36, 42, 48, 54, (60)

12: 12, 24, 36, 48, (60)