

**Determine the greatest common factor (GCF) of each set of numbers.****Answers**

To find the GCF of 12 & 16, first write down the factors of each number.

Factors of 12 1 , 2 , 3 , 4 , 6 , 12

Factors of 16 1 , 2 , 4 , 8 , 16

2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

1) 12 , 30

Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

2) 33 , 42

Factors of 33 _____ , _____ , _____ , _____

Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

3) 33 , 21

Factors of 33 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

4) 30 , 12

Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

5) 3 , 21

Factors of 3 _____ , _____

Factors of 21 _____ , _____ , _____ , _____

6) 16 , 3

Factors of 16 _____ , _____ , _____ , _____ , _____

Factors of 3 _____ , _____

7) 39 , 45

Factors of 39 _____ , _____ , _____ , _____

Factors of 45 _____ , _____ , _____ , _____ , _____ , _____

8) 6 , 21

Factors of 6 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

9) 28 , 36

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

Factors of 36 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

**Determine the greatest common factor (GCF) of each set of numbers.****Answers**

To find the GCF of 12 & 16, first write down the factors of each number.

Factors of 12 1 , 2 , 3 , 4 , 6 , 12

Factors of 16 1 , 2 , 4 , 8 , 16

2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

1) 12 , 30

Factors of 12 1 , 2 , 3 , 4 , 6 , 12
Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

2) 33 , 42

Factors of 33 1 , 3 , 11 , 33
Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

3) 33 , 21

Factors of 33 1 , 3 , 11 , 33
Factors of 21 1 , 3 , 7 , 21

4) 30 , 12

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30
Factors of 12 1 , 2 , 3 , 4 , 6 , 12

5) 3 , 21

Factors of 3 1 , 3
Factors of 21 1 , 3 , 7 , 21

6) 16 , 3

Factors of 16 1 , 2 , 4 , 8 , 16
Factors of 3 1 , 3

7) 39 , 45

Factors of 39 1 , 3 , 13 , 39
Factors of 45 1 , 3 , 5 , 9 , 15 , 45

8) 6 , 21

Factors of 6 1 , 2 , 3 , 6
Factors of 21 1 , 3 , 7 , 21

9) 28 , 36

Factors of 28 1 , 2 , 4 , 7 , 14 , 28
Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 361. 62. 33. 34. 65. 36. 17. 38. 39. 4