

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

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

Factors of 12    1 , 2 , 3 , 4 , 6 , 12Factors of 16    1 , 2 , 4 , 8 , 16

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

**1)** 12 , 45

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 45    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**2)** 33 , 12

Factors of 33    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**3)** 12 , 21

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 21    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**4)** 15 , 39

Factors of 15    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 39    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**5)** 18 , 10

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 10    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**6)** 18 , 14

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 14    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**7)** 42 , 21

Factors of 42    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 21    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**8)** 4 , 12

Factors of 4    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**9)** 18 , 12

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

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

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

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 16 1 , 2 , 4 , 8 , 16

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

**Answers**

1) 12, 45

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 45 1 , 3 , 5 , 9 , 15 , 45

2) 33, 12

Factors of 33 1 , 3 , 11 , 33Factors of 12 1 , 2 , 3 , 4 , 6 , 12

3) 12, 21

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 21 1 , 3 , 7 , 21

4) 15, 39

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

5) 18, 10

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 10 1 , 2 , 5 , 10

6) 18, 14

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 14 1 , 2 , 7 , 14

7) 42, 21

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

8) 4, 12

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

9) 18, 12

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 12 1 , 2 , 3 , 4 , 6 , 121. 32. 33. 34. 35. 26. 27. 218. 49. 6