

**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 , 12

Factors 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)** 8 , 6

Factors of 8    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 6    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**2)** 28 , 10

Factors of 28    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

**3)** 12 , 22

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

Factors of 22    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**4)** 24 , 18

Factors of 24    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

**5)** 2 , 15

Factors of 2    \_\_\_\_\_ , \_\_\_\_\_

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

**6)** 15 , 12

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

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

**7)** 22 , 24

Factors of 22    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 24    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

**8)** 20 , 42

Factors of 20    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

**9)** 6 , 22

Factors of 6    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 22    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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.

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Factors 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) 8 , 6

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

2) 28 , 10

Factors of 28    1 , 2 , 4 , 7 , 14 , 28Factors of 10    1 , 2 , 5 , 10

3) 12 , 22

Factors of 12    1 , 2 , 3 , 4 , 6 , 12Factors of 22    1 , 2 , 11 , 22

4) 24 , 18

Factors of 24    1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 18    1 , 2 , 3 , 6 , 9 , 18

5) 2 , 15

Factors of 2    1 , 2Factors of 15    1 , 3 , 5 , 15

6) 15 , 12

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

7) 22 , 24

Factors of 22    1 , 2 , 11 , 22Factors of 24    1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

8) 20 , 42

Factors of 20    1 , 2 , 4 , 5 , 10 , 20Factors of 42    1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

9) 6 , 22

Factors of 6    1 , 2 , 3 , 6Factors of 22    1 , 2 , 11 , 221. 22. 23. 24. 65. 16. 37. 28. 29. 2