



**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 , 24

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

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

2) 33 , 45

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

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

3) 24 , 20

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

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

4) 8 , 45

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

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

5) 33 , 2

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

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

6) 26 , 24

Factors of 26    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

7) 24 , 8

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

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

8) 14 , 2

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

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

9) 42 , 30

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

Factors of 30    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_



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

**Answers**

1) 12 , 24

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

1. 12

2) 33 , 45

Factors of 33    1 , 3 , 11 , 33  
 Factors of 45    1 , 3 , 5 , 9 , 15 , 45

2. 3

3) 24 , 20

Factors of 24    1 , 2 , 3 , 4 , 6 , 8 , 12 , 24  
 Factors of 20    1 , 2 , 4 , 5 , 10 , 20

3. 4

4) 8 , 45

Factors of 8    1 , 2 , 4 , 8  
 Factors of 45    1 , 3 , 5 , 9 , 15 , 45

4. 1

5) 33 , 2

Factors of 33    1 , 3 , 11 , 33  
 Factors of 2    1 , 2

5. 1

6) 26 , 24

Factors of 26    1 , 2 , 13 , 26  
 Factors of 24    1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

6. 2

7) 24 , 8

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

7. 8

8) 14 , 2

Factors of 14    1 , 2 , 7 , 14  
 Factors of 2    1 , 2

8. 2

9) 42 , 30

Factors of 42    1 , 2 , 3 , 6 , 7 , 14 , 21 , 42  
 Factors of 30    1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

9. 6