



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) 6 , 30

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

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

2) 4 , 28

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

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

3) 24 , 10

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

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

4) 36 , 18

Factors of 36    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

5) 42 , 22

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

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

6) 22 , 6

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

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

7) 28 , 30

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

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

8) 6 , 20

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

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

9) 30 , 42

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

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

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



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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.

Answers

1) 6, 30

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

2) 4, 28

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

3) 24, 10

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

4) 36, 18

Factors of 36 1, 2, 3, 4, 6, 9, 12, 18, 36  
 Factors of 18 1, 2, 3, 6, 9, 18

5) 42, 22

Factors of 42 1, 2, 3, 6, 7, 14, 21, 42  
 Factors of 22 1, 2, 11, 22

6) 22, 6

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

7) 28, 30

Factors of 28 1, 2, 4, 7, 14, 28  
 Factors of 30 1, 2, 3, 5, 6, 10, 15, 30

8) 6, 20

Factors of 6 1, 2, 3, 6  
 Factors of 20 1, 2, 4, 5, 10, 20

9) 30, 42

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

- 1. 6
- 2. 4
- 3. 2
- 4. 18
- 5. 2
- 6. 2
- 7. 2
- 8. 2
- 9. 6