



**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) 2 , 42

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

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

2) 14 , 3

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

Factors of 3    \_\_\_\_\_ , \_\_\_\_\_

3) 30 , 9

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

Factors of 9    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

4) 21 , 39

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

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

5) 2 , 15

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

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

6) 42 , 12

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

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

7) 18 , 36

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

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

8) 30 , 12

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

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

9) 42 , 8

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

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

- 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) 2 , 42

Factors of 2    1 , 2

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

2) 14 , 3

Factors of 14    1 , 2 , 7 , 14

Factors of 3    1 , 3

3) 30 , 9

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

Factors of 9    1 , 3 , 9

4) 21 , 39

Factors of 21    1 , 3 , 7 , 21

Factors of 39    1 , 3 , 13 , 39

5) 2 , 15

Factors of 2    1 , 2

Factors of 15    1 , 3 , 5 , 15

6) 42 , 12

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

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

7) 18 , 36

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

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

8) 30 , 12

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

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

9) 42 , 8

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

Factors of 8    1 , 2 , 4 , 8

1. 2

2. 1

3. 3

4. 3

5. 1

6. 6

7. 18

8. 6

9. 2