



**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) 15 , 18

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

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

2) 27 , 42

Factors of 27    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

3) 36 , 24

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

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

4) 2 , 18

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

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

5) 20 , 39

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

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

6) 39 , 3

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

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

7) 28 , 45

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

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

8) 4 , 45

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

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

9) 42 , 9

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

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

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



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Answers

1) 15 , 18

Factors of 15    1 , 3 , 5 , 15

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

1. 3

2) 27 , 42

Factors of 27    1 , 3 , 9 , 27

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

2. 3

3. 12

4. 2

5. 1

6. 3

7. 1

3) 36 , 24

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

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

8. 1

4) 2 , 18

Factors of 2    1 , 2

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

9. 3

5) 20 , 39

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

Factors of 39    1 , 3 , 13 , 39

6) 39 , 3

Factors of 39    1 , 3 , 13 , 39

Factors of 3    1 , 3

7) 28 , 45

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

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

8) 4 , 45

Factors of 4    1 , 2 , 4

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

9) 42 , 9

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

Factors of 9    1 , 3 , 9