



**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 , 21

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

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

2) 27 , 28

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

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

3) 14 , 24

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

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

4) 24 , 45

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

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

5) 2 , 24

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

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

6) 14 , 18

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

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

7) 12 , 24

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

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

8) 2 , 45

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

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

9) 21 , 16

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

Factors of 16    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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



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To find the GCF of 12 & 16, first write down the factors of each number.

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Factors of 16    1 , 2 , 4 , 8 , 16

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Answers

1) 6, 21

Factors of 6    1 , 2 , 3 , 6

Factors of 21    1 , 3 , 7 , 21

1. 3

2) 27, 28

Factors of 27    1 , 3 , 9 , 27

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

2. 1

3. 2

4. 3

5. 2

6. 2

3) 14, 24

Factors of 14    1 , 2 , 7 , 14

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

7. 12

8. 1

4) 24, 45

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

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

9. 1

5) 2, 24

Factors of 2    1 , 2

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

6) 14, 18

Factors of 14    1 , 2 , 7 , 14

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

7) 12, 24

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

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

8) 2, 45

Factors of 2    1 , 2

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

9) 21, 16

Factors of 21    1 , 3 , 7 , 21

Factors of 16    1 , 2 , 4 , 8 , 16