



**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) 24 , 2

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

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

2) 30 , 22

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

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

3) 26 , 21

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

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

4) 18 , 24

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

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

5) 27 , 6

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

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

6) 6 , 24

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

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

7) 18 , 9

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

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

8) 45 , 42

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

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

9) 15 , 3

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

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

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_



Determine the greatest common factor (GCF) of each set of numbers.

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.

Answers

1) 24 , 2

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

Factors of 2    1 , 2

1. 2

2) 30 , 22

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

Factors of 22    1 , 2 , 11 , 22

2. 2

3. 1

4. 6

5. 3

3) 26 , 21

Factors of 26    1 , 2 , 13 , 26

Factors of 21    1 , 3 , 7 , 21

6. 6

7. 9

8. 3

4) 18 , 24

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

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

9. 3

5) 27 , 6

Factors of 27    1 , 3 , 9 , 27

Factors of 6    1 , 2 , 3 , 6

6) 6 , 24

Factors of 6    1 , 2 , 3 , 6

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

7) 18 , 9

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

Factors of 9    1 , 3 , 9

8) 45 , 42

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

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

9) 15 , 3

Factors of 15    1 , 3 , 5 , 15

Factors of 3    1 , 3