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.

1) 14 , 16

Factors of 14   ____ , ____ , ____ , ____

Factors of 16   ____ , ____ , ____ , ____ , ____

2) 24 , 30

Factors of 24   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

3) 6 , 4

Factors of 6   ____ , ____ , ____ , ____

Factors of 4   ____ , ____ , ____

4) 3 , 39

Factors of 3   ____ , ____

Factors of 39   ____ , ____ , ____ , ____

5) 30 , 18

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 18   ____ , ____ , ____ , ____ , ____ , ____

6) 10 , 36

Factors of 10   ____ , ____ , ____ , ____

Factors of 36   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

7) 22 , 33

Factors of 22   ____ , ____ , ____ , ____

Factors of 33   ____ , ____ , ____ , ____

8) 20 , 30

Factors of 20   ____ , ____ , ____ , ____ , ____ , ____

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

9) 14 , 22

Factors of 14   ____ , ____ , ____ , ____

Factors of 22   ____ , ____ , ____ , ____

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.

1) 14 , 16

Factors of 14   1 , 2 , 7 , 14

Factors of 16   1 , 2 , 4 , 8 , 16

2) 24 , 30

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

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

3) 6 , 4

Factors of 6   1 , 2 , 3 , 6

Factors of 4   1 , 2 , 4

4) 3 , 39

Factors of 3   1 , 3

Factors of 39   1 , 3 , 13 , 39

5) 30 , 18

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

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

6) 10 , 36

Factors of 10   1 , 2 , 5 , 10

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

7) 22 , 33

Factors of 22   1 , 2 , 11 , 22

Factors of 33   1 , 3 , 11 , 33

8) 20 , 30

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

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

9) 14 , 22

Factors of 14   1 , 2 , 7 , 14

Factors of 22   1 , 2 , 11 , 22

Answers

1. **2**
2. **6**
3. **2**
4. **3**
5. **6**
6. **2**
7. **11**
8. **10**
9. **2**