Name: _____

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. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

1) 6 , 9

Factors of 6   ____ , ____ , ____ , ____

Factors of 9   ____ , ____ , ____

2) 45 , 33

Factors of 45   ____ , ____ , ____ , ____ , ____ , ____

Factors of 33   ____ , ____ , ____ , ____

3) 45 , 20

Factors of 45   ____ , ____ , ____ , ____ , ____ , ____

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

4) 20 , 33

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

Factors of 33   ____ , ____ , ____ , ____

5) 4 , 26

Factors of 4   ____ , ____ , ____

Factors of 26   ____ , ____ , ____ , ____

6) 28 , 15

Factors of 28   ____ , ____ , ____ , ____ , ____ , ____

Factors of 15   ____ , ____ , ____ , ____

7) 10 , 12

Factors of 10   ____ , ____ , ____ , ____

Factors of 12   ____ , ____ , ____ , ____ , ____ , ____

8) 30 , 36

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

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

9) 39 , 22

Factors of 39   ____ , ____ , ____ , ____

Factors of 22   ____ , ____ , ____ , ____

Name: **Answer Key**

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.   **3**

2.   **3**

3.   **5**

4.   **1**

5.   **2**

6.   **1**

7.   **2**

8.   **6**

9.   **1**

1) 6 , 9

    Factors of 6   1 , 2 , 3 , 6

    Factors of 9   1 , 3 , 9

2) 45 , 33

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

    Factors of 33   1 , 3 , 11 , 33

3) 45 , 20

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

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

4) 20 , 33

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

    Factors of 33   1 , 3 , 11 , 33

5) 4 , 26

    Factors of 4   1 , 2 , 4

    Factors of 26   1 , 2 , 13 , 26

6) 28 , 15

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

    Factors of 15   1 , 3 , 5 , 15

7) 10 , 12

    Factors of 10   1 , 2 , 5 , 10

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

8) 30 , 36

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

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

9) 39 , 22

    Factors of 39   1 , 3 , 13 , 39

    Factors of 22   1 , 2 , 11 , 22

1-9	89	78	67	56	44	33	22	11	0