Finding Greatest Common Factor

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) 20 , 9

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

Factors of 9   ____ , ____ , ____

2) 30 , 39

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

Factors of 39   ____ , ____ , ____ , ____

3) 4 , 36

Factors of 4   ____ , ____ , ____

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

4) 30 , 36

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

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

5) 21 , 26

Factors of 21   ____ , ____ , ____ , ____

Factors of 26   ____ , ____ , ____ , ____

6) 39 , 6

Factors of 39   ____ , ____ , ____ , ____

Factors of 6   ____ , ____ , ____ , ____

7) 24 , 18

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

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

8) 18 , 42

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

Factors of 42   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

9) 24 , 2

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

Factors of 2   ____ , ____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

Math

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

Finding Greatest Common Factor

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) 20 , 9

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

Factors of 9   1 , 3 , 9

2) 30 , 39

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

Factors of 39   1 , 3 , 13 , 39

3) 4 , 36

Factors of 4   1 , 2 , 4

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

4) 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

5) 21 , 26

Factors of 21   1 , 3 , 7 , 21

Factors of 26   1 , 2 , 13 , 26

6) 39 , 6

Factors of 39   1 , 3 , 13 , 39

Factors of 6   1 , 2 , 3 , 6

7) 24 , 18

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

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

8) 18 , 42

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

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

9) 24 , 2

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

Factors of 2   1 , 2

Answers

1. **1**

2. **3**

3. **4**

4. **6**

5. **1**

6. **3**

7. **6**

8. **6**

9. **2**

Math