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) 10 , 24

Factors of 10   ____ , ____ , ____ , ____

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

2) 22 , 4

Factors of 22   ____ , ____ , ____ , ____

Factors of 4   ____ , ____ , ____

3) 28 , 3

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

Factors of 3   ____ , ____

4) 8 , 2

Factors of 8   ____ , ____ , ____ , ____

Factors of 2   ____ , ____

5) 6 , 33

Factors of 6   ____ , ____ , ____ , ____

Factors of 33   ____ , ____ , ____ , ____

6) 27 , 12

Factors of 27   ____ , ____ , ____ , ____

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

7) 36 , 6

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

Factors of 6   ____ , ____ , ____ , ____

8) 6 , 16

Factors of 6   ____ , ____ , ____ , ____

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

9) 2 , 12

Factors of 2   ____ , ____

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

Math

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**

2. **2**

3. **1**

1) 10 , 24

Factors of 10   1 , 2 , 5 , 10

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

4. **2**

2) 22 , 4

Factors of 22   1 , 2 , 11 , 22

Factors of 4   1 , 2 , 4

5. **3**

6. **3**

3) 28 , 3

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

Factors of 3   1 , 3

7. **6**

4) 8 , 2

Factors of 8   1 , 2 , 4 , 8

Factors of 2   1 , 2

8. **2**

9. **2**

5) 6 , 33

Factors of 6   1 , 2 , 3 , 6

Factors of 33   1 , 3 , 11 , 33

6) 27 , 12

Factors of 27   1 , 3 , 9 , 27

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

7) 36 , 6

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

Factors of 6   1 , 2 , 3 , 6

8) 6 , 16

Factors of 6   1 , 2 , 3 , 6

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

9) 2 , 12

Factors of 2   1 , 2

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

Math