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. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

1) 16 , 12

Factors of 16   ___ , ___ , ___ , ___ , ___

Factors of 12   ___ , ___ , ___ , ___ , ___ , ___

2) 16 , 33

Factors of 16   ___ , ___ , ___ , ___ , ___

Factors of 33   ___ , ___ , ___ , ___

3) 36 , 16

Factors of 36   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

Factors of 16   ___ , ___ , ___ , ___ , ___

4) 6 , 24

Factors of 6   ___ , ___ , ___ , ___

Factors of 24   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

5) 12 , 6

Factors of 12   ___ , ___ , ___ , ___ , ___ , ___

Factors of 6   ___ , ___ , ___ , ___

6) 10 , 22

Factors of 10   ___ , ___ , ___ , ___

Factors of 22   ___ , ___ , ___ , ___

7) 28 , 36

Factors of 28   ___ , ___ , ___ , ___ , ___ , ___

Factors of 36   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

8) 30 , 22

Factors of 30   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

Factors of 22   ___ , ___ , ___ , ___

9) 33 , 42

Factors of 33   ___ , ___ , ___ , ___

Factors of 42   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

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. **4**

2. **1**

3. **4**

4. **6**

5. **6**

6. **2**

7. **4**

8. **2**

9. **3**

1) 16 , 12

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

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

2) 16 , 33

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

Factors of 33   1 , 3 , 11 , 33

3) 36 , 16

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

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

4) 6 , 24

Factors of 6   1 , 2 , 3 , 6

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

5) 12 , 6

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

Factors of 6   1 , 2 , 3 , 6

6) 10 , 22

Factors of 10   1 , 2 , 5 , 10

Factors of 22   1 , 2 , 11 , 22

7) 28 , 36

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

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

8) 30 , 22

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

Factors of 22   1 , 2 , 11 , 22

9) 33 , 42

Factors of 33   1 , 3 , 11 , 33

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

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