# 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)** 12 , 10

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

Factors of 10 ____ , ____ , ____ , ____

**2)** 10 , 16

Factors of 10 ____ , ____ , ____ , ____

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

**3)** 20 , 18

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

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

**4)** 10 , 2

Factors of 10 ____ , ____ , ____ , ____

Factors of 2 ____ , ____

**5)** 22 , 10

Factors of 22 ____ , ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

**6)** 24 , 33

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

Factors of 33 ____ , ____ , ____ , ____

**7)** 9 , 24

Factors of 9 ____ , ____ , ____

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

**8)** 21 , 6

Factors of 21 ____ , ____ , ____ , ____

Factors of 6 ____ , ____ , ____ , ____

**9)** 12 , 26

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

Factors of 26 ____ , ____ , ____ , ____

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____



| 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.**

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)** 12 , 10

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

Factors of 10 1 , 2 , 5 , 10

**2)** 10 , 16

Factors of 10 1 , 2 , 5 , 10

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

**3)** 20 , 18

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

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

**4)** 10 , 2

Factors of 10 1 , 2 , 5 , 10

Factors of 2 1 , 2

**5)** 22 , 10

Factors of 22 1 , 2 , 11 , 22

Factors of 10 1 , 2 , 5 , 10

**6)** 24 , 33

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

Factors of 33 1 , 3 , 11 , 33

**7)** 9 , 24

Factors of 9 1 , 3 , 9

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

**8)** 21 , 6

Factors of 21 1 , 3 , 7 , 21

Factors of 6 1 , 2 , 3 , 6

**9)** 12 , 26

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

Factors of 26 1 , 2 , 13 , 26

**Answers**

1. 2
2. 2
3. 2
4. 2
5. 2
6. 3
7. 3
8. 3
9. 2



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