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) 15 , 10

Factors of 15 ____ , ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

2) 4 , 10

Factors of 4 ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

3) 15 , 6

Factors of 15 ____ , ____ , ____ , ____

Factors of 6 ____ , ____ , ____ , ____

4) 12 , 4

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

Factors of 4 ____ , ____ , ____

5) 26 , 22

Factors of 26 ____ , ____ , ____ , ____

Factors of 22 ____ , ____ , ____ , ____

6) 18 , 20

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

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

7) 27 , 36

Factors of 27 ____ , ____ , ____ , ____

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

8) 12 , 22

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

Factors of 22 ____ , ____ , ____ , ____

9) 10 , 12

Factors of 10 ____ , ____ , ____ , ____

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

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) 15 , 10

Factors of 15 1 , 3 , 5 , 15

Factors of 10 1 , 2 , 5 , 10

2) 4 , 10

Factors of 4 1 , 2 , 4

Factors of 10 1 , 2 , 5 , 10

3) 15 , 6

Factors of 15 1 , 3 , 5 , 15

Factors of 6 1 , 2 , 3 , 6

4) 12 , 4

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

Factors of 4 1 , 2 , 4

5) 26 , 22

Factors of 26 1 , 2 , 13 , 26

Factors of 22 1 , 2 , 11 , 22

6) 18 , 20

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

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

7) 27 , 36

Factors of 27 1 , 3 , 9 , 27

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

8) 12 , 22

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

Factors of 22 1 , 2 , 11 , 22

9) 10 , 12

Factors of 10 1 , 2 , 5 , 10

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

Answers

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

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