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) 4 , 10

Factors of 4 ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

2) 33 , 12

Factors of 33 ____ , ____ , ____ , ____

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

3) 36 , 42

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

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

4) 16 , 30

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

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

5) 20 , 36

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

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

6) 2 , 30

Factors of 2 ____ , ____

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

7) 45 , 24

Factors of 45 ____ , ____ , ____ , ____ , ____ , ____

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

8) 24 , 39

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

Factors of 39 ____ , ____ , ____ , ____

9) 10 , 45

Factors of 10 ____ , ____ , ____ , ____

Factors of 45 ____ , ____ , ____ , ____ , ____ , ____

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) 4 , 10

Factors of 4 1 , 2 , 4

Factors of 10 1 , 2 , 5 , 10

2) 33 , 12

Factors of 33 1 , 3 , 11 , 33

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

3) 36 , 42

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

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

4) 16 , 30

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

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

5) 20 , 36

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

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

6) 2 , 30

Factors of 2 1 , 2

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

7) 45 , 24

Factors of 45 1 , 3 , 5 , 9 , 15 , 45

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

8) 24 , 39

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

Factors of 39 1 , 3 , 13 , 39

9) 10 , 45

Factors of 10 1 , 2 , 5 , 10

Factors of 45 1 , 3 , 5 , 9 , 15 , 45

Answers

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

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