



Determine the greatest common factor (GCF) of each set of numbers.

Answers

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) 3 , 21

Factors of 3 _____ , _____
 Factors of 21 _____ , _____ , _____ , _____

2) 15 , 30

Factors of 15 _____ , _____ , _____ , _____
 Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

3) 33 , 12

Factors of 33 _____ , _____ , _____ , _____
 Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

4) 10 , 28

Factors of 10 _____ , _____ , _____ , _____
 Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

5) 27 , 30

Factors of 27 _____ , _____ , _____ , _____
 Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

6) 45 , 12

Factors of 45 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

7) 8 , 36

Factors of 8 _____ , _____ , _____ , _____
 Factors of 36 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

8) 28 , 36

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 36 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

9) 18 , 21

Factors of 18 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 21 _____ , _____ , _____ , _____



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2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

Answers

1) 3, 21

Factors of 3 1, 3
 Factors of 21 1, 3, 7, 21

1. 3

2) 15, 30

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

2. 15

3) 33, 12

Factors of 33 1, 3, 11, 33
 Factors of 12 1, 2, 3, 4, 6, 12

3. 3

4) 10, 28

Factors of 10 1, 2, 5, 10
 Factors of 28 1, 2, 4, 7, 14, 28

4. 2

5) 27, 30

Factors of 27 1, 3, 9, 27
 Factors of 30 1, 2, 3, 5, 6, 10, 15, 30

5. 3

6) 45, 12

Factors of 45 1, 3, 5, 9, 15, 45
 Factors of 12 1, 2, 3, 4, 6, 12

6. 3

7) 8, 36

Factors of 8 1, 2, 4, 8
 Factors of 36 1, 2, 3, 4, 6, 9, 12, 18, 36

7. 4

8) 28, 36

Factors of 28 1, 2, 4, 7, 14, 28
 Factors of 36 1, 2, 3, 4, 6, 9, 12, 18, 36

8. 4

9) 18, 21

Factors of 18 1, 2, 3, 6, 9, 18
 Factors of 21 1, 3, 7, 21

9. 3