



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) 27 , 36

Factors of 27 _____ , _____ , _____ , _____

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

2) 42 , 30

Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

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

3) 21 , 18

Factors of 21 _____ , _____ , _____ , _____

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

4) 39 , 33

Factors of 39 _____ , _____ , _____ , _____

Factors of 33 _____ , _____ , _____ , _____

5) 33 , 8

Factors of 33 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

6) 42 , 28

Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

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

7) 27 , 8

Factors of 27 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

8) 9 , 16

Factors of 9 _____ , _____ , _____

Factors of 16 _____ , _____ , _____ , _____ , _____

9) 6 , 36

Factors of 6 _____ , _____ , _____ , _____

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

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



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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) 27, 36

Factors of 27 1 , 3 , 9 , 27

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

1. 9

2) 42, 30

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

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

2. 6

3. 3

4. 3

3) 21, 18

Factors of 21 1 , 3 , 7 , 21

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

5. 1

6. 14

7. 1

4) 39, 33

Factors of 39 1 , 3 , 13 , 39

Factors of 33 1 , 3 , 11 , 33

8. 1

9. 6

5) 33, 8

Factors of 33 1 , 3 , 11 , 33

Factors of 8 1 , 2 , 4 , 8

6) 42, 28

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

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

7) 27, 8

Factors of 27 1 , 3 , 9 , 27

Factors of 8 1 , 2 , 4 , 8

8) 9, 16

Factors of 9 1 , 3 , 9

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

9) 6, 36

Factors of 6 1 , 2 , 3 , 6

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