



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) 16, 12

Factors of 16 _____ , _____ , _____ , _____ , _____
 Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

2) 30, 42

Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____
 Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

3) 36, 16

Factors of 36 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____
 Factors of 16 _____ , _____ , _____ , _____ , _____

4) 6, 24

Factors of 6 _____ , _____ , _____ , _____
 Factors of 24 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

5) 12, 6

Factors of 12 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 6 _____ , _____ , _____ , _____

6) 10, 22

Factors of 10 _____ , _____ , _____ , _____
 Factors of 22 _____ , _____ , _____ , _____

7) 28, 36

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

8) 30, 22

Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____
 Factors of 22 _____ , _____ , _____ , _____

9) 33, 42

Factors of 33 _____ , _____ , _____ , _____
 Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

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) 16, 12

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

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

1. 4

2) 30, 42

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

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

2. 6

3. 4

3) 36, 16

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

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

4. 6

5. 6

6. 2

7. 4

4) 6, 24

Factors of 6 1 , 2 , 3 , 6

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

8. 2

9. 3

5) 12, 6

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

Factors of 6 1 , 2 , 3 , 6

6) 10, 22

Factors of 10 1 , 2 , 5 , 10

Factors of 22 1 , 2 , 11 , 22

7) 28, 36

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

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

8) 30, 22

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

Factors of 22 1 , 2 , 11 , 22

9) 33, 42

Factors of 33 1 , 3 , 11 , 33

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