



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) 39 , 6

Factors of 39 _____ , _____ , _____ , _____

Factors of 6 _____ , _____ , _____ , _____

2) 42 , 26

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

Factors of 26 _____ , _____ , _____ , _____

3) 4 , 30

Factors of 4 _____ , _____ , _____

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

4) 22 , 6

Factors of 22 _____ , _____ , _____ , _____

Factors of 6 _____ , _____ , _____ , _____

5) 42 , 30

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

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

6) 24 , 22

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

Factors of 22 _____ , _____ , _____ , _____

7) 20 , 12

Factors of 20 _____ , _____ , _____ , _____ , _____ , _____

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

8) 3 , 12

Factors of 3 _____ , _____

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

9) 2 , 30

Factors of 2 _____ , _____

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



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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) 39, 6

Factors of 39 1, 3, 13, 39

Factors of 6 1, 2, 3, 6

1. 3

2) 42, 26

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

Factors of 26 1, 2, 13, 26

2. 2

3) 4, 30

Factors of 4 1, 2, 4

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

3. 2

4) 22, 6

Factors of 22 1, 2, 11, 22

Factors of 6 1, 2, 3, 6

4. 2

5) 42, 30

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

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

5. 6

6) 24, 22

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

Factors of 22 1, 2, 11, 22

6. 2

7) 20, 12

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

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

7. 4

8) 3, 12

Factors of 3 1, 3

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

8. 3

9) 2, 30

Factors of 2 1, 2

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

9. 2