

**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) 39 , 9

Factors of 39 _____ , _____ , _____ , _____

Factors of 9 _____ , _____ , _____

2) 39 , 12

Factors of 39 _____ , _____ , _____ , _____

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

3) 18 , 30

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

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

4) 27 , 9

Factors of 27 _____ , _____ , _____ , _____

Factors of 9 _____ , _____ , _____

5) 24 , 21

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

Factors of 21 _____ , _____ , _____ , _____

6) 14 , 21

Factors of 14 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

7) 10 , 12

Factors of 10 _____ , _____ , _____ , _____

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

8) 12 , 24

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

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

9) 14 , 33

Factors of 14 _____ , _____ , _____ , _____

Factors of 33 _____ , _____ , _____ , _____

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) 39 , 9

Factors of 39 1 , 3 , 13 , 39Factors of 9 1 , 3 , 9

2) 39 , 12

Factors of 39 1 , 3 , 13 , 39Factors of 12 1 , 2 , 3 , 4 , 6 , 12

3) 18 , 30

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

4) 27 , 9

Factors of 27 1 , 3 , 9 , 27Factors of 9 1 , 3 , 9

5) 24 , 21

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 21 1 , 3 , 7 , 21

6) 14 , 21

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

7) 10 , 12

Factors of 10 1 , 2 , 5 , 10Factors of 12 1 , 2 , 3 , 4 , 6 , 12

8) 12 , 24

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

9) 14 , 33

Factors of 14 1 , 2 , 7 , 14Factors of 33 1 , 3 , 11 , 331. 32. 33. 64. 95. 36. 77. 28. 129. 1