

**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) 6 , 9

Factors of 6 _____ , _____ , _____ , _____

Factors of 9 _____ , _____ , _____

2) 45 , 33

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

Factors of 33 _____ , _____ , _____ , _____

3) 45 , 20

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

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

4) 20 , 33

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

Factors of 33 _____ , _____ , _____ , _____

5) 4 , 26

Factors of 4 _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

6) 28 , 15

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

Factors of 15 _____ , _____ , _____ , _____

7) 10 , 12

Factors of 10 _____ , _____ , _____ , _____

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

8) 30 , 36

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

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

9) 39 , 22

Factors of 39 _____ , _____ , _____ , _____

Factors of 22 _____ , _____ , _____ , _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

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To find the GCF of 12 & 16, first write down the factors of each number.

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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) 6, 9

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

2) 45, 33

Factors of 45 1 , 3 , 5 , 9 , 15 , 45Factors of 33 1 , 3 , 11 , 33

3) 45, 20

Factors of 45 1 , 3 , 5 , 9 , 15 , 45Factors of 20 1 , 2 , 4 , 5 , 10 , 20

4) 20, 33

Factors of 20 1 , 2 , 4 , 5 , 10 , 20Factors of 33 1 , 3 , 11 , 33

5) 4, 26

Factors of 4 1 , 2 , 4Factors of 26 1 , 2 , 13 , 26

6) 28, 15

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 15 1 , 3 , 5 , 15

7) 10, 12

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

8) 30, 36

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

9) 39, 22

Factors of 39 1 , 3 , 13 , 39Factors of 22 1 , 2 , 11 , 221. 32. 33. 54. 15. 26. 17. 28. 69. 1