

**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 , 12Factors 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) 30 , 27

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

Factors of 27 _____ , _____ , _____ , _____

2) 45 , 6

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

Factors of 6 _____ , _____ , _____ , _____

3) 3 , 6

Factors of 3 _____ , _____

Factors of 6 _____ , _____ , _____ , _____

4) 12 , 6

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

Factors of 6 _____ , _____ , _____ , _____

5) 10 , 18

Factors of 10 _____ , _____ , _____ , _____

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

6) 36 , 20

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

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

7) 33 , 42

Factors of 33 _____ , _____ , _____ , _____

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

8) 30 , 18

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

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

9) 24 , 9

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

Factors of 9 _____ , _____ , _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

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

Answers

1) 30 , 27

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30Factors of 27 1 , 3 , 9 , 27

2) 45 , 6

Factors of 45 1 , 3 , 5 , 9 , 15 , 45Factors of 6 1 , 2 , 3 , 6

3) 3 , 6

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

4) 12 , 6

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

5) 10 , 18

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

6) 36 , 20

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 20 1 , 2 , 4 , 5 , 10 , 20

7) 33 , 42

Factors of 33 1 , 3 , 11 , 33Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

8) 30 , 18

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

9) 24 , 9

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 9 1 , 3 , 91. 32. 33. 34. 65. 26. 47. 38. 69. 3