



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) 27 , 12

Factors of 27 _____ , _____ , _____ , _____

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

2) 15 , 6

Factors of 15 _____ , _____ , _____ , _____

Factors of 6 _____ , _____ , _____ , _____

3) 36 , 16

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

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

4) 6 , 9

Factors of 6 _____ , _____ , _____ , _____

Factors of 9 _____ , _____ , _____

5) 4 , 42

Factors of 4 _____ , _____ , _____

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

6) 6 , 30

Factors of 6 _____ , _____ , _____ , _____

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

7) 26 , 20

Factors of 26 _____ , _____ , _____ , _____

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

8) 30 , 26

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

Factors of 26 _____ , _____ , _____ , _____

9) 20 , 4

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

Factors of 4 _____ , _____ , _____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____



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Answers

1) 27, 12

Factors of 27 1 , 3 , 9 , 27

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

1. 3

2) 15, 6

Factors of 15 1 , 3 , 5 , 15

Factors of 6 1 , 2 , 3 , 6

2. 3

3) 36, 16

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

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

3. 4

4) 6, 9

Factors of 6 1 , 2 , 3 , 6

Factors of 9 1 , 3 , 9

4. 3

5) 4, 42

Factors of 4 1 , 2 , 4

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

5. 2

6) 6, 30

Factors of 6 1 , 2 , 3 , 6

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

6. 6

7) 26, 20

Factors of 26 1 , 2 , 13 , 26

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

7. 2

8) 30, 26

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

Factors of 26 1 , 2 , 13 , 26

8. 2

9) 20, 4

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

Factors of 4 1 , 2 , 4

9. 4