

**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) 24 , 6

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

Factors of 6 _____ , _____ , _____ , _____

2) 24 , 4

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

Factors of 4 _____ , _____ , _____

3) 15 , 26

Factors of 15 _____ , _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

4) 42 , 20

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

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

5) 9 , 26

Factors of 9 _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

6) 36 , 28

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

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

7) 36 , 22

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

Factors of 22 _____ , _____ , _____ , _____

8) 12 , 9

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

Factors of 9 _____ , _____ , _____

9) 26 , 16

Factors of 26 _____ , _____ , _____ , _____

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

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.

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

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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) 24 , 6

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

2) 24 , 4

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

3) 15 , 26

Factors of 15 1 , 3 , 5 , 15Factors of 26 1 , 2 , 13 , 26

4) 42 , 20

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42Factors of 20 1 , 2 , 4 , 5 , 10 , 20

5) 9 , 26

Factors of 9 1 , 3 , 9Factors of 26 1 , 2 , 13 , 26

6) 36 , 28

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 28 1 , 2 , 4 , 7 , 14 , 28

7) 36 , 22

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 22 1 , 2 , 11 , 22

8) 12 , 9

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

9) 26 , 16

Factors of 26 1 , 2 , 13 , 26Factors of 16 1 , 2 , 4 , 8 , 161. 62. 43. 14. 25. 16. 47. 28. 39. 2