



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) 45 , 12

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

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

2) 18 , 21

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

Factors of 21 _____ , _____ , _____ , _____

3) 14 , 39

Factors of 14 _____ , _____ , _____ , _____

Factors of 39 _____ , _____ , _____ , _____

4) 15 , 18

Factors of 15 _____ , _____ , _____ , _____

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

5) 3 , 12

Factors of 3 _____ , _____

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

6) 12 , 28

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

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

7) 3 , 22

Factors of 3 _____ , _____

Factors of 22 _____ , _____ , _____ , _____

8) 12 , 30

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

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

9) 18 , 20

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

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

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) 45 , 12

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

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

1. 3

2) 18 , 21

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

Factors of 21 1 , 3 , 7 , 21

2. 3

3) 14 , 39

Factors of 14 1 , 2 , 7 , 14

Factors of 39 1 , 3 , 13 , 39

3. 1

4) 15 , 18

Factors of 15 1 , 3 , 5 , 15

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

4. 3

5) 3 , 12

Factors of 3 1 , 3

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

5. 3

6) 12 , 28

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

Factors of 28 1 , 2 , 4 , 7 , 14 , 28

6. 4

7) 3 , 22

Factors of 3 1 , 3

Factors of 22 1 , 2 , 11 , 22

7. 1

8) 12 , 30

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

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

8. 6

9) 18 , 20

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

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

9. 2