



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) 12 , 24

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

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

2) 33 , 45

Factors of 33 _____ , _____ , _____ , _____

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

3) 24 , 20

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

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

4) 8 , 45

Factors of 8 _____ , _____ , _____ , _____

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

5) 33 , 2

Factors of 33 _____ , _____ , _____ , _____

Factors of 2 _____ , _____

6) 26 , 24

Factors of 26 _____ , _____ , _____ , _____

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

7) 24 , 8

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

Factors of 8 _____ , _____ , _____ , _____

8) 14 , 2

Factors of 14 _____ , _____ , _____ , _____

Factors of 2 _____ , _____

9) 42 , 30

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

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

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) 12 , 24

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

1. 12

2) 33 , 45

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

2. 3

3) 24 , 20

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24
 Factors of 20 1 , 2 , 4 , 5 , 10 , 20

3. 4

4) 8 , 45

Factors of 8 1 , 2 , 4 , 8
 Factors of 45 1 , 3 , 5 , 9 , 15 , 45

4. 1

5) 33 , 2

Factors of 33 1 , 3 , 11 , 33
 Factors of 2 1 , 2

5. 1

6) 26 , 24

Factors of 26 1 , 2 , 13 , 26
 Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

6. 2

7) 24 , 8

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

7. 8

8) 14 , 2

Factors of 14 1 , 2 , 7 , 14
 Factors of 2 1 , 2

8. 2

9) 42 , 30

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42
 Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

9. 6