



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

1) 14 , 16

Factors of 14 _____ , _____ , _____ , _____

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

2) 45 , 12

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

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

3) 2 , 16

Factors of 2 _____ , _____

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

4) 6 , 42

Factors of 6 _____ , _____ , _____ , _____

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

5) 24 , 9

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

Factors of 9 _____ , _____ , _____

6) 45 , 36

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

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

7) 6 , 30

Factors of 6 _____ , _____ , _____ , _____

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

8) 18 , 2

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

Factors of 2 _____ , _____

9) 22 , 42

Factors of 22 _____ , _____ , _____ , _____

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



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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) 14, 16

Factors of 14 1, 2, 7, 14
 Factors of 16 1, 2, 4, 8, 16

2) 45, 12

Factors of 45 1, 3, 5, 9, 15, 45
 Factors of 12 1, 2, 3, 4, 6, 12

3) 2, 16

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

4) 6, 42

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

5) 24, 9

Factors of 24 1, 2, 3, 4, 6, 8, 12, 24
 Factors of 9 1, 3, 9

6) 45, 36

Factors of 45 1, 3, 5, 9, 15, 45
 Factors of 36 1, 2, 3, 4, 6, 9, 12, 18, 36

7) 6, 30

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

8) 18, 2

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

9) 22, 42

Factors of 22 1, 2, 11, 22
 Factors of 42 1, 2, 3, 6, 7, 14, 21, 42

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