

**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 , 10

Factors of 27 _____ , _____ , _____ , _____

Factors of 10 _____ , _____ , _____ , _____

2) 22 , 8

Factors of 22 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

3) 27 , 4

Factors of 27 _____ , _____ , _____ , _____

Factors of 4 _____ , _____ , _____

4) 28 , 33

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

Factors of 33 _____ , _____ , _____ , _____

5) 45 , 6

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

Factors of 6 _____ , _____ , _____ , _____

6) 36 , 30

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

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

7) 2 , 36

Factors of 2 _____ , _____

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

8) 14 , 21

Factors of 14 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

9) 16 , 45

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

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

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) 27 , 10

Factors of 27 1 , 3 , 9 , 27Factors of 10 1 , 2 , 5 , 10

2) 22 , 8

Factors of 22 1 , 2 , 11 , 22Factors of 8 1 , 2 , 4 , 8

3) 27 , 4

Factors of 27 1 , 3 , 9 , 27Factors of 4 1 , 2 , 4

4) 28 , 33

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 33 1 , 3 , 11 , 33

5) 45 , 6

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

6) 36 , 30

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

7) 2 , 36

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

8) 14 , 21

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

9) 16 , 45

Factors of 16 1 , 2 , 4 , 8 , 16Factors of 45 1 , 3 , 5 , 9 , 15 , 451. 12. 23. 14. 15. 36. 67. 28. 79. 1