



**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) 8 , 12

Factors of 8

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 12

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

2) 14 , 4

Factors of 14

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 4

\_\_\_\_ , \_\_\_\_ , \_\_\_\_

3) 6 , 24

Factors of 6

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 24

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

4) 27 , 30

Factors of 27

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 30

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

5) 12 , 16

Factors of 12

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 16

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

6) 45 , 24

Factors of 45

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 24

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

7) 18 , 24

Factors of 18

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 24

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

8) 21 , 33

Factors of 21

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 33

\_\_\_\_ , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

9) 9 , 4

Factors of 9

\_\_\_\_ , \_\_\_\_ , \_\_\_\_

Factors of 4

\_\_\_\_ , \_\_\_\_ , \_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_



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Answers

1) 8 , 12

Factors of 8    1 , 2 , 4 , 8

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

1. 4

2) 14 , 4

Factors of 14    1 , 2 , 7 , 14

Factors of 4    1 , 2 , 4

2. 2

3) 6 , 24

Factors of 6    1 , 2 , 3 , 6

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

3. 6

4) 27 , 30

Factors of 27    1 , 3 , 9 , 27

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

4. 3

5) 12 , 16

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

Factors of 16    1 , 2 , 4 , 8 , 16

5. 4

6) 45 , 24

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

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

6. 3

7) 18 , 24

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

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

7. 6

8) 21 , 33

Factors of 21    1 , 3 , 7 , 21

Factors of 33    1 , 3 , 11 , 33

8. 3

9) 9 , 4

Factors of 9    1 , 3 , 9

Factors of 4    1 , 2 , 4

9. 1