



**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) 33 , 24

Factors of 33    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 24    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

2) 6 , 33

Factors of 6    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 33    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

3) 33 , 8

Factors of 33    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 8    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

4) 16 , 12

Factors of 16    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

5) 24 , 14

Factors of 24    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 14    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

6) 28 , 22

Factors of 28    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 22    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

7) 12 , 6

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 6    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

8) 30 , 12

Factors of 30    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 12    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

9) 21 , 39

Factors of 21    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 39    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_



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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.

**Answers**

1) 33 , 24

Factors of 33    1 , 3 , 11 , 33

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

1. 3

2) 6 , 33

Factors of 6    1 , 2 , 3 , 6

Factors of 33    1 , 3 , 11 , 33

2. 3

3) 33 , 8

Factors of 33    1 , 3 , 11 , 33

Factors of 8    1 , 2 , 4 , 8

3. 1

4) 16 , 12

Factors of 16    1 , 2 , 4 , 8 , 16

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

4. 4

5) 24 , 14

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

Factors of 14    1 , 2 , 7 , 14

5. 2

6) 28 , 22

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

Factors of 22    1 , 2 , 11 , 22

6. 2

7) 12 , 6

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

Factors of 6    1 , 2 , 3 , 6

7. 6

8) 30 , 12

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

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

8. 6

9) 21 , 39

Factors of 21    1 , 3 , 7 , 21

Factors of 39    1 , 3 , 13 , 39

9. 3