



**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) 45 , 12

Factors of 45    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

2) 18 , 21

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

3) 14 , 39

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

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

4) 15 , 18

Factors of 15    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

5) 3 , 12

Factors of 3    \_\_\_\_\_ , \_\_\_\_\_

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

6) 12 , 28

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

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

7) 3 , 22

Factors of 3    \_\_\_\_\_ , \_\_\_\_\_

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

8) 12 , 30

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

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

9) 18 , 20

Factors of 18    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Factors of 20    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

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

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

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

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

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

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

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

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



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To find the GCF of 12 & 16, first write down the factors of each number.

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**Answers**

1) 45 , 12

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

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

1. 3

2) 18 , 21

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

Factors of 21    1 , 3 , 7 , 21

2. 3

3) 14 , 39

Factors of 14    1 , 2 , 7 , 14

Factors of 39    1 , 3 , 13 , 39

3. 1

4) 15 , 18

Factors of 15    1 , 3 , 5 , 15

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

4. 3

5) 3 , 12

Factors of 3    1 , 3

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

5. 3

6) 12 , 28

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

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

6. 4

7) 3 , 22

Factors of 3    1 , 3

Factors of 22    1 , 2 , 11 , 22

7. 1

8) 12 , 30

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

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

8. 6

9) 18 , 20

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

Factors of 20    1 , 2 , 4 , 5 , 10 , 20

9. 2