

**Determine the greatest common factor (GCF) of each set of numbers.****Answers**

To find the GCF of 12 &amp; 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 &amp; 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

1) 28 , 10

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

Factors of 10    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

2) 24 , 28

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

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

3) 45 , 24

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

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

4) 15 , 30

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

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

5) 18 , 20

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

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

6) 27 , 20

Factors of 27    \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

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

7) 30 , 15

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

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

8) 16 , 39

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

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

9) 24 , 33

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

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

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

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

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

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

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

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

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

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

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



## Finding Greatest Common Factor

Name: **Answer Key**

Determine the greatest common factor (GCF) of each set of numbers.

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.

### Answers

1) 28 , 10

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

Factors of 10    1 , 2 , 5 , 10

1. 2

2) 24 , 28

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

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

2. 4

3. 3

4. 15

5. 2

6. 1

3) 45 , 24

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

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

7. 15

8. 1

9. 3

4) 15 , 30

Factors of 15    1 , 3 , 5 , 15

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

5) 18 , 20

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

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

6) 27 , 20

Factors of 27    1 , 3 , 9 , 27

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

7) 30 , 15

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

Factors of 15    1 , 3 , 5 , 15

8) 16 , 39

Factors of 16    1 , 2 , 4 , 8 , 16

Factors of 39    1 , 3 , 13 , 39

9) 24 , 33

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

Factors of 33    1 , 3 , 11 , 33