Name: _____

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.

1. _____

2. _____

3. _____

4. _____

1) 8 , 18

Factors of 8   ____ , ____ , ____ , ____

Factors of 18   ____ , ____ , ____ , ____ , ____ , ____

5. _____

2) 24 , 21

Factors of 24   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 21   ____ , ____ , ____ , ____

6. _____

7. _____

3) 3 , 39

Factors of 3   ____ , ____

Factors of 39   ____ , ____ , ____ , ____

8. _____

4) 27 , 45

Factors of 27   ____ , ____ , ____ , ____

Factors of 45   ____ , ____ , ____ , ____ , ____ , ____

9. _____

5) 21 , 39

Factors of 21   ____ , ____ , ____ , ____

Factors of 39   ____ , ____ , ____ , ____

6) 33 , 16

Factors of 33   ____ , ____ , ____ , ____

Factors of 16   ____ , ____ , ____ , ____ , ____

7) 14 , 39

Factors of 14   ____ , ____ , ____ , ____

Factors of 39   ____ , ____ , ____ , ____

8) 6 , 2

Factors of 6   ____ , ____ , ____ , ____

Factors of 2   ____ , ____

9) 39 , 33

Factors of 39   ____ , ____ , ____ , ____

Factors of 33   ____ , ____ , ____ , ____

1-9 | 89 | 78 | 67 | 56 | 44 | 33 | 22 | 11 | 0

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.

1. **2**

2. **3**

3. **3**

4. **9**

5. **3**

6. **1**

7. **1**

8. **2**

9. **3**

1) 8 , 18

   Factors of 8   1 , 2 , 4 , 8

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

2) 24 , 21

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

   Factors of 21   1 , 3 , 7 , 21

3) 3 , 39

   Factors of 3   1 , 3

   Factors of 39   1 , 3 , 13 , 39

4) 27 , 45

   Factors of 27   1 , 3 , 9 , 27

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

5) 21 , 39

   Factors of 21   1 , 3 , 7 , 21

   Factors of 39   1 , 3 , 13 , 39

6) 33 , 16

   Factors of 33   1 , 3 , 11 , 33

   Factors of 16   1 , 2 , 4 , 8 , 16

7) 14 , 39

   Factors of 14   1 , 2 , 7 , 14

   Factors of 39   1 , 3 , 13 , 39

8) 6 , 2

   Factors of 6   1 , 2 , 3 , 6

   Factors of 2   1 , 2

9) 39 , 33

   Factors of 39   1 , 3 , 13 , 39

   Factors of 33   1 , 3 , 11 , 33

1-9 | 89 | 78 | 67 | 56 | 44 | 33 | 22 | 11 | 0

Math