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   <u>1</u> , <u>2</u> , <u>3</u> , <u>4</u> , <u>6</u> , <u>12</u>

Factors of 16   <u>1</u> , <u>2</u> , <u>4</u> , <u>8</u> , <u>16</u>

2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

1. _____

2. _____

3. _____

1) 24 , 2

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

Factors of 2   ____ , ____

4. _____

5. _____

2) 30 , 22

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 22   ____ , ____ , ____ , ____

6. _____

3) 10 , 30

Factors of 10   ____ , ____ , ____ , ____

Factors of 30   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

7. _____

8. _____

4) 18 , 24

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

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

9. _____

5) 27 , 6

Factors of 27   ____ , ____ , ____ , ____

Factors of 6   ____ , ____ , ____ , ____

6) 6 , 24

Factors of 6   ____ , ____ , ____ , ____

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

7) 18 , 9

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

Factors of 9   ____ , ____ , ____

8) 45 , 42

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

Factors of 42   ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

9) 15 , 3

Factors of 15   ____ , ____ , ____ , ____

Factors of 3   ____ , ____

| 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.

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. **2**

2. **2**

3. **10**

4. **6**

5. **3**

6. **6**

7. **9**

8. **3**

9. **3**

1) 24 , 2

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

Factors of 2   1 , 2

2) 30 , 22

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

Factors of 22   1 , 2 , 11 , 22

3) 10 , 30

Factors of 10   1 , 2 , 5 , 10

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

4) 18 , 24

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

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

5) 27 , 6

Factors of 27   1 , 3 , 9 , 27

Factors of 6   1 , 2 , 3 , 6

6) 6 , 24

Factors of 6   1 , 2 , 3 , 6

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

7) 18 , 9

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

Factors of 9   1 , 3 , 9

8) 45 , 42

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

Factors of 42   1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

9) 15 , 3

Factors of 15   1 , 3 , 5 , 15

Factors of 3   1 , 3

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