



## Finding Greatest Common Factor

Name: \_\_\_\_\_

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) 26 , 18

Factors of 26    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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

2) 28 , 36

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

Factors of 36    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

3) 9 , 45

Factors of 9    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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

4) 6 , 2

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

Factors of 2    \_\_\_\_\_, \_\_\_\_\_

5) 45 , 3

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

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

6) 18 , 9

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

Factors of 9    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

7) 9 , 36

Factors of 9    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 36    \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

8) 18 , 28

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

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

9) 10 , 22

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

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

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. **2**

2. **4**

3. **9**

4. **2**

5. **3**

6. **9**

7. **9**

8. **2**

9. **2**

1) 26 , 18

Factors of 26    1 , 2 , 13 , 26

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

2) 28 , 36

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

Factors of 36    1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

3) 9 , 45

Factors of 9    1 , 3 , 9

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

4) 6 , 2

Factors of 6    1 , 2 , 3 , 6

Factors of 2    1 , 2

5) 45 , 3

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

Factors of 3    1 , 3

6) 18 , 9

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

Factors of 9    1 , 3 , 9

7) 9 , 36

Factors of 9    1 , 3 , 9

Factors of 36    1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

8) 18 , 28

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

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

9) 10 , 22

Factors of 10    1 , 2 , 5 , 10

Factors of 22    1 , 2 , 11 , 22