



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) 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. **2**

2. **4**

3. **3**

4. **15**

5. **2**

6. **1**

7. **15**

8. **1**

9. **3**

1) 28 , 10

Factors of 28 1 , 2 , 4 , 7 , 14 , 28
Factors of 10 1 , 2 , 5 , 10

2) 24 , 28

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24
Factors of 28 1 , 2 , 4 , 7 , 14 , 28

3) 45 , 24

Factors of 45 1 , 3 , 5 , 9 , 15 , 45
Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

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