



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) 14 , 3

Factors of 14 _____, _____, _____, _____

Factors of 3 _____, _____

2) 24 , 12

Factors of 24 _____, _____, _____, _____, _____, _____, _____, _____

Factors of 12 _____, _____, _____, _____, _____, _____

3) 45 , 21

Factors of 45 _____, _____, _____, _____, _____, _____

Factors of 21 _____, _____, _____, _____

4) 12 , 14

Factors of 12 _____, _____, _____, _____, _____, _____

Factors of 14 _____, _____, _____, _____

5) 12 , 2

Factors of 12 _____, _____, _____, _____, _____, _____

Factors of 2 _____, _____

6) 24 , 22

Factors of 24 _____, _____, _____, _____, _____, _____, _____, _____

Factors of 22 _____, _____, _____, _____

7) 10 , 24

Factors of 10 _____, _____, _____, _____

Factors of 24 _____, _____, _____, _____, _____, _____, _____, _____

8) 10 , 8

Factors of 10 _____, _____, _____, _____

Factors of 8 _____, _____, _____, _____

9) 33 , 18

Factors of 33 _____, _____, _____, _____

Factors of 18 _____, _____, _____, _____, _____, _____

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. **1**

2. **12**

3. **3**

4. **2**

5. **2**

6. **2**

7. **2**

8. **2**

9. **3**

1) 14 , 3

Factors of 14 1 , 2 , 7 , 14
Factors of 3 1 , 3

2) 24 , 12

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

3) 45 , 21

Factors of 45 1 , 3 , 5 , 9 , 15 , 45
Factors of 21 1 , 3 , 7 , 21

4) 12 , 14

Factors of 12 1 , 2 , 3 , 4 , 6 , 12
Factors of 14 1 , 2 , 7 , 14

5) 12 , 2

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

6) 24 , 22

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24
Factors of 22 1 , 2 , 11 , 22

7) 10 , 24

Factors of 10 1 , 2 , 5 , 10
Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

8) 10 , 8

Factors of 10 1 , 2 , 5 , 10
Factors of 8 1 , 2 , 4 , 8

9) 33 , 18

Factors of 33 1 , 3 , 11 , 33
Factors of 18 1 , 2 , 3 , 6 , 9 , 18