



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) 4, 27

Factors of 4 _____, _____, _____

Factors of 27 _____, _____, _____, _____

2) 6, 4

Factors of 6 _____, _____, _____, _____

Factors of 4 _____, _____, _____

3) 15, 6

Factors of 15 _____, _____, _____, _____

Factors of 6 _____, _____, _____, _____

4) 10, 28

Factors of 10 _____, _____, _____, _____

Factors of 28 _____, _____, _____, _____, _____, _____

5) 42, 21

Factors of 42 _____, _____, _____, _____, _____, _____, _____, _____

Factors of 21 _____, _____, _____, _____

6) 33, 10

Factors of 33 _____, _____, _____, _____

Factors of 10 _____, _____, _____, _____

7) 18, 16

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

Factors of 16 _____, _____, _____, _____, _____

8) 24, 28

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

Factors of 28 _____, _____, _____, _____, _____, _____

9) 6, 20

Factors of 6 _____, _____, _____, _____

Factors of 20 _____, _____, _____, _____, _____, _____

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. **2**

3. **3**

4. **2**

5. **21**

6. **1**

7. **2**

8. **4**

9. **2**

1) 4 , 27

Factors of 4 1 , 2 , 4

Factors of 27 1 , 3 , 9 , 27

2) 6 , 4

Factors of 6 1 , 2 , 3 , 6

Factors of 4 1 , 2 , 4

3) 15 , 6

Factors of 15 1 , 3 , 5 , 15

Factors of 6 1 , 2 , 3 , 6

4) 10 , 28

Factors of 10 1 , 2 , 5 , 10

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

5) 42 , 21

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

Factors of 21 1 , 3 , 7 , 21

6) 33 , 10

Factors of 33 1 , 3 , 11 , 33

Factors of 10 1 , 2 , 5 , 10

7) 18 , 16

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

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

8) 24 , 28

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

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

9) 6 , 20

Factors of 6 1 , 2 , 3 , 6

Factors of 20 1 , 2 , 4 , 5 , 10 , 20