



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) 12, 30

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

Factors of 30 _____, _____, _____, _____, _____, _____, _____, _____

2) 33, 42

Factors of 33 _____, _____, _____, _____

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

3) 33, 21

Factors of 33 _____, _____, _____, _____

Factors of 21 _____, _____, _____, _____

4) 30, 12

Factors of 30 _____, _____, _____, _____, _____, _____, _____, _____

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

5) 3, 21

Factors of 3 _____, _____

Factors of 21 _____, _____, _____, _____

6) 16, 3

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

Factors of 3 _____, _____

7) 39, 45

Factors of 39 _____, _____, _____, _____

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

8) 6, 21

Factors of 6 _____, _____, _____, _____

Factors of 21 _____, _____, _____, _____

9) 28, 36

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

Factors of 36 _____, _____, _____, _____, _____, _____, _____, _____, _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



Finding Greatest Common Factor

Name: **Answer Key**

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Answers

1. **6**

2. **3**

3. **3**

4. **6**

5. **3**

6. **1**

7. **3**

8. **3**

9. **4**

1) 12 , 30

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

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

2) 33 , 42

Factors of 33 1 , 3 , 11 , 33

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

3) 33 , 21

Factors of 33 1 , 3 , 11 , 33

Factors of 21 1 , 3 , 7 , 21

4) 30 , 12

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

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

5) 3 , 21

Factors of 3 1 , 3

Factors of 21 1 , 3 , 7 , 21

6) 16 , 3

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

Factors of 3 1 , 3

7) 39 , 45

Factors of 39 1 , 3 , 13 , 39

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

8) 6 , 21

Factors of 6 1 , 2 , 3 , 6

Factors of 21 1 , 3 , 7 , 21

9) 28 , 36

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

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