Finding Greatest Common Factor

Name:

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.

1) 6 , 30

Factors of 6 ____ , ____ , ____ , ____

Factors of 30 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

2) 15 , 22

Factors of 15 ____ , ____ , ____ , ____

Factors of 22 ____ , ____ , ____ , ____

3) 15 , 39

Factors of 15 ____ , ____ , ____ , ____

Factors of 39 ____ , ____ , ____ , ____

4) 42 , 30

Factors of 42 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 30 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

5) 4 , 6

Factors of 4 ____ , ____ , ____

Factors of 6 ____ , ____ , ____ , ____

6) 8 , 28

Factors of 8 ____ , ____ , ____ , ____

Factors of 28 ____ , ____ , ____ , ____ , ____ , ____

7) 3 , 8

Factors of 3 ____ , ____

Factors of 8 ____ , ____ , ____ , ____

8) 21 , 10

Factors of 21 ____ , ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

9) 8 , 18

Factors of 8 ____ , ____ , ____ , ____

Factors of 18 ____ , ____ , ____ , ____ , ____ , ____

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Finding Greatest Common Factor

Name: **Answer Key**

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1) 6 , 30

Factors of 6 1 , 2 , 3 , 6

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

2) 15 , 22

Factors of 15 1 , 3 , 5 , 15

Factors of 22 1 , 2 , 11 , 22

3) 15 , 39

Factors of 15 1 , 3 , 5 , 15

Factors of 39 1 , 3 , 13 , 39

4) 42 , 30

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

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

5) 4 , 6

Factors of 4 1 , 2 , 4

Factors of 6 1 , 2 , 3 , 6

6) 8 , 28

Factors of 8 1 , 2 , 4 , 8

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

7) 3 , 8

Factors of 3 1 , 3

Factors of 8 1 , 2 , 4 , 8

8) 21 , 10

Factors of 21 1 , 3 , 7 , 21

Factors of 10 1 , 2 , 5 , 10

9) 8 , 18

Factors of 8 1 , 2 , 4 , 8

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

Answers

1. 6
2. 1
3. 3
4. 6
5. 2
6. 4
7. 1
8. 1
9. 2