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 , 21

Factors of 6 ____ , ____ , ____ , ____

Factors of 21 ____ , ____ , ____ , ____

2) 27 , 28

Factors of 27 ____ , ____ , ____ , ____

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

3) 14 , 24

Factors of 14 ____ , ____ , ____ , ____

Factors of 24 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

4) 24 , 45

Factors of 24 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Factors of 45 ____ , ____ , ____ , ____ , ____ , ____

5) 2 , 24

Factors of 2 ____ , ____

Factors of 24 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

6) 14 , 18

Factors of 14 ____ , ____ , ____ , ____

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

7) 12 , 24

Factors of 12 ____ , ____ , ____ , ____ , ____ , ____

Factors of 24 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

8) 2 , 45

Factors of 2 ____ , ____

Factors of 45 ____ , ____ , ____ , ____ , ____ , ____

9) 21 , 16

Factors of 21 ____ , ____ , ____ , ____

Factors of 16 ____ , ____ , ____ , ____ , ____

Answers

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

1-9	89	78	67	56	44	33	22	11	0

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To find the GCF of 12 & 16, first write down the factors of each number.

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1) 6 , 21

Factors of 6 1 , 2 , 3 , 6

Factors of 21 1 , 3 , 7 , 21

2) 27 , 28

Factors of 27 1 , 3 , 9 , 27

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

3) 14 , 24

Factors of 14 1 , 2 , 7 , 14

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

4) 24 , 45

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

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

5) 2 , 24

Factors of 2 1 , 2

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

6) 14 , 18

Factors of 14 1 , 2 , 7 , 14

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

7) 12 , 24

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

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

8) 2 , 45

Factors of 2 1 , 2

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

9) 21 , 16

Factors of 21 1 , 3 , 7 , 21

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

Answers

1. 3
2. 1
3. 2
4. 3
5. 2
6. 2
7. 12
8. 1
9. 1

1-9	89	78	67	56	44	33	22	11	0