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) 12 , 6

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

Factors of 6 ____ , ____ , ____ , ____

2) 6 , 10

Factors of 6 ____ , ____ , ____ , ____

Factors of 10 ____ , ____ , ____ , ____

3) 30 , 18

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

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

4) 10 , 22

Factors of 10 ____ , ____ , ____ , ____

Factors of 22 ____ , ____ , ____ , ____

5) 42 , 30

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

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

6) 4 , 18

Factors of 4 ____ , ____ , ____

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

7) 12 , 24

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

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

8) 4 , 26

Factors of 4 ____ , ____ , ____

Factors of 26 ____ , ____ , ____ , ____

9) 22 , 28

Factors of 22 ____ , ____ , ____ , ____

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

Answers

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

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

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.

1) 12 , 6

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

Factors of 6 1 , 2 , 3 , 6

2) 6 , 10

Factors of 6 1 , 2 , 3 , 6

Factors of 10 1 , 2 , 5 , 10

3) 30 , 18

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

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

4) 10 , 22

Factors of 10 1 , 2 , 5 , 10

Factors of 22 1 , 2 , 11 , 22

5) 42 , 30

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

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

6) 4 , 18

Factors of 4 1 , 2 , 4

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) 4 , 26

Factors of 4 1 , 2 , 4

Factors of 26 1 , 2 , 13 , 26

9) 22 , 28

Factors of 22 1 , 2 , 11 , 22

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

Answers

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

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