Finding Greatest Common Factor

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) 24 , 22

Factors of 24   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

Factors of 22   ___ , ___ , ___ , ___

2) 18 , 26

Factors of 18   ___ , ___ , ___ , ___ , ___ , ___

Factors of 26   ___ , ___ , ___ , ___

3) 6 , 42

Factors of 6   ___ , ___ , ___ , ___

Factors of 42   ___ , ___ , ___ , ___ , ___ , ___ , ___ , ___

4) 26 , 16

Factors of 26   ___ , ___ , ___ , ___

Factors of 16   ___ , ___ , ___ , ___ , ___

5) 18 , 3

Factors of 18   ___ , ___ , ___ , ___ , ___ , ___

Factors of 3   ___ , ___

6) 8 , 28

Factors of 8   ___ , ___ , ___ , ___

Factors of 28   ___ , ___ , ___ , ___ , ___ , ___

7) 39 , 33

Factors of 39   ___ , ___ , ___ , ___

Factors of 33   ___ , ___ , ___ , ___

8) 8 , 6

Factors of 8   ___ , ___ , ___ , ___

Factors of 6   ___ , ___ , ___ , ___

9) 15 , 20

Factors of 15   ___ , ___ , ___ , ___

Factors of 20   ___ , ___ , ___ , ___ , ___ , ___

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

Math

Finding Greatest Common Factor   Name:

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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) 24 , 22

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

Factors of 22   1 , 2 , 11 , 22

2) 18 , 26

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

Factors of 26   1 , 2 , 13 , 26

3) 6 , 42

Factors of 6   1 , 2 , 3 , 6

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

4) 26 , 16

Factors of 26   1 , 2 , 13 , 26

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

5) 18 , 3

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

Factors of 3   1 , 3

6) 8 , 28

Factors of 8   1 , 2 , 4 , 8

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

7) 39 , 33

Factors of 39   1 , 3 , 13 , 39

Factors of 33   1 , 3 , 11 , 33

8) 8 , 6

Factors of 8   1 , 2 , 4 , 8

Factors of 6   1 , 2 , 3 , 6

9) 15 , 20

Factors of 15   1 , 3 , 5 , 15

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