



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

1) 18, 2

Factors of 18 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 2 _____ , _____

2) 9, 12

Factors of 9 _____ , _____ , _____
 Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

3) 6, 9

Factors of 6 _____ , _____ , _____ , _____
 Factors of 9 _____ , _____ , _____

4) 8, 12

Factors of 8 _____ , _____ , _____ , _____
 Factors of 12 _____ , _____ , _____ , _____ , _____ , _____

5) 4, 18

Factors of 4 _____ , _____ , _____
 Factors of 18 _____ , _____ , _____ , _____ , _____ , _____

6) 10, 6

Factors of 10 _____ , _____ , _____ , _____
 Factors of 6 _____ , _____ , _____ , _____

7) 20, 36

Factors of 20 _____ , _____ , _____ , _____ , _____ , _____
 Factors of 36 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

8) 16, 30

Factors of 16 _____ , _____ , _____ , _____ , _____
 Factors of 30 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

9) 42, 15

Factors of 42 _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____
 Factors of 15 _____ , _____ , _____ , _____



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2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

Answers

1) 18, 2

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

Factors of 2 1, 2

1. 2

2) 9, 12

Factors of 9 1, 3, 9

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

2. 3

3) 6, 9

Factors of 6 1, 2, 3, 6

Factors of 9 1, 3, 9

3. 3

4) 8, 12

Factors of 8 1, 2, 4, 8

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

4. 4

5) 4, 18

Factors of 4 1, 2, 4

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

5. 2

6) 10, 6

Factors of 10 1, 2, 5, 10

Factors of 6 1, 2, 3, 6

6. 2

7) 20, 36

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

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

7. 4

8) 16, 30

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

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

8. 2

9) 42, 15

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

Factors of 15 1, 3, 5, 15

9. 3