



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) 6, 9

Factors of 6 _____, _____, _____, _____

Factors of 9 _____, _____, _____

2) 45, 33

Factors of 45 _____, _____, _____, _____, _____, _____

Factors of 33 _____, _____, _____, _____

3) 45, 20

Factors of 45 _____, _____, _____, _____, _____, _____

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

4) 16, 26

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

Factors of 26 _____, _____, _____, _____

5) 4, 26

Factors of 4 _____, _____, _____

Factors of 26 _____, _____, _____, _____

6) 42, 10

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

Factors of 10 _____, _____, _____, _____

7) 12, 2

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

Factors of 2 _____, _____

8) 30, 36

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

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

9) 24, 15

Factors of 24 _____, _____, _____, _____, _____, _____, _____, _____

Factors of 15 _____, _____, _____, _____



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Answers

1) 6, 9

Factors of 6 1 , 2 , 3 , 6

Factors of 9 1 , 3 , 9

1. 3

2) 45, 33

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

Factors of 33 1 , 3 , 11 , 33

2. 3

3) 45, 20

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

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

3. 5

4) 16, 26

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

Factors of 26 1 , 2 , 13 , 26

4. 2

5) 4, 26

Factors of 4 1 , 2 , 4

Factors of 26 1 , 2 , 13 , 26

5. 2

6) 42, 10

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

Factors of 10 1 , 2 , 5 , 10

6. 2

7) 12, 2

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

Factors of 2 1 , 2

7. 2

8) 30, 36

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

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

8. 6

9) 24, 15

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

Factors of 15 1 , 3 , 5 , 15

9. 3