



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) 4 , 24

Factors of 4 _____, _____, _____

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

2) 36 , 27

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

Factors of 27 _____, _____, _____, _____

3) 21 , 30

Factors of 21 _____, _____, _____, _____

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

4) 9 , 24

Factors of 9 _____, _____, _____

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

5) 4 , 2

Factors of 4 _____, _____, _____

Factors of 2 _____, _____

6) 6 , 16

Factors of 6 _____, _____, _____, _____

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

7) 30 , 8

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

Factors of 8 _____, _____, _____, _____

8) 30 , 24

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

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

9) 6 , 30

Factors of 6 _____, _____, _____, _____

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

Answers

1. _____

2. _____

3. _____

4. _____

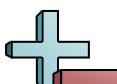
5. _____

6. _____

7. _____

8. _____

9. _____



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1) 4, 24

Factors of 4 1, 2, 4

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

2) 36, 27

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

Factors of 27 1, 3, 9, 27

3) 21, 30

Factors of 21 1, 3, 7, 21

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

4) 9, 24

Factors of 9 1, 3, 9

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

5) 4, 2

Factors of 4 1, 2, 4

Factors of 2 1, 2

6) 6, 16

Factors of 6 1, 2, 3, 6

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

7) 30, 8

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

Factors of 8 1, 2, 4, 8

8) 30, 24

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

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

9) 6, 30

Factors of 6 1, 2, 3, 6

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

Answers

1. 4

2. 9

3. 3

4. 3

5. 2

6. 2

7. 2

8. 6

9. 6