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) 24 , 15

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

Factors of 15   ____ , ____ , ____ , ____

2) 24 , 26

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

Factors of 26   ____ , ____ , ____ , ____

3) 16 , 6

Factors of 16   ____ , ____ , ____ , ____ , ____

Factors of 6   ____ , ____ , ____ , ____

4) 30 , 21

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

Factors of 21   ____ , ____ , ____ , ____

5) 28 , 2

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

Factors of 2   ____ , ____

6) 6 , 15

Factors of 6   ____ , ____ , ____ , ____

Factors of 15   ____ , ____ , ____ , ____

7) 21 , 20

Factors of 21   ____ , ____ , ____ , ____

Factors of 20   ____ , ____ , ____ , ____ , ____ , ____

8) 6 , 27

Factors of 6   ____ , ____ , ____ , ____

Factors of 27   ____ , ____ , ____ , ____

9) 39 , 15

Factors of 39   ____ , ____ , ____ , ____

Factors of 15   ____ , ____ , ____ , ____

Name:

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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. _____**3**_____

2. _____**2**_____

3. _____**2**_____

1) 24 , 15

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

Factors of 15   1 , 3 , 5 , 15

4. _____**3**_____

2) 24 , 26

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

Factors of 26   1 , 2 , 13 , 26

5. _____**2**_____

6. _____**3**_____

3) 16 , 6

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

Factors of 6   1 , 2 , 3 , 6

7. _____**1**_____

4) 30 , 21

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

Factors of 21   1 , 3 , 7 , 21

8. _____**3**_____

9. _____**3**_____

5) 28 , 2

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

Factors of 2   1 , 2

6) 6 , 15

Factors of 6   1 , 2 , 3 , 6

Factors of 15   1 , 3 , 5 , 15

7) 21 , 20

Factors of 21   1 , 3 , 7 , 21

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

8) 6 , 27

Factors of 6   1 , 2 , 3 , 6

Factors of 27   1 , 3 , 9 , 27

9) 39 , 15

Factors of 39   1 , 3 , 13 , 39

Factors of 15   1 , 3 , 5 , 15

Math

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