



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) 33 , 24

Factors of 33 _____ , _____ , _____ , _____

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

2) 6 , 33

Factors of 6 _____ , _____ , _____ , _____

Factors of 33 _____ , _____ , _____ , _____

3) 33 , 8

Factors of 33 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

4) 16 , 12

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

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

5) 24 , 14

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

Factors of 14 _____ , _____ , _____ , _____

6) 28 , 22

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

Factors of 22 _____ , _____ , _____ , _____

7) 12 , 6

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

Factors of 6 _____ , _____ , _____ , _____

8) 30 , 12

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

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

9) 21 , 39

Factors of 21 _____ , _____ , _____ , _____

Factors of 39 _____ , _____ , _____ , _____

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



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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.

Answers

1) 33 , 24

Factors of 33 1 , 3 , 11 , 33

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

1. 3

2) 6 , 33

Factors of 6 1 , 2 , 3 , 6

Factors of 33 1 , 3 , 11 , 33

2. 3

3) 33 , 8

Factors of 33 1 , 3 , 11 , 33

Factors of 8 1 , 2 , 4 , 8

3. 1

4) 16 , 12

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

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

4. 4

5) 24 , 14

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

Factors of 14 1 , 2 , 7 , 14

5. 2

6) 28 , 22

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

Factors of 22 1 , 2 , 11 , 22

6. 2

7) 12 , 6

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

Factors of 6 1 , 2 , 3 , 6

7. 6

8) 30 , 12

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

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

8. 6

9) 21 , 39

Factors of 21 1 , 3 , 7 , 21

Factors of 39 1 , 3 , 13 , 39

9. 3



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) 45 , 12

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

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

2) 18 , 21

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

Factors of 21 _____ , _____ , _____ , _____

3) 14 , 39

Factors of 14 _____ , _____ , _____ , _____

Factors of 39 _____ , _____ , _____ , _____

4) 15 , 18

Factors of 15 _____ , _____ , _____ , _____

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

5) 3 , 12

Factors of 3 _____ , _____

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

6) 12 , 28

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

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

7) 3 , 22

Factors of 3 _____ , _____

Factors of 22 _____ , _____ , _____ , _____

8) 12 , 30

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

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

9) 18 , 20

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

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

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



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.

Answers

1) 45 , 12

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

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

1. 3

2) 18 , 21

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

Factors of 21 1 , 3 , 7 , 21

2. 3

3) 14 , 39

Factors of 14 1 , 2 , 7 , 14

Factors of 39 1 , 3 , 13 , 39

3. 1

4) 15 , 18

Factors of 15 1 , 3 , 5 , 15

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

4. 3

5) 3 , 12

Factors of 3 1 , 3

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

5. 3

6) 12 , 28

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

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

6. 4

7) 3 , 22

Factors of 3 1 , 3

Factors of 22 1 , 2 , 11 , 22

7. 1

8) 12 , 30

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

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

8. 6

9) 18 , 20

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

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

9. 2



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) 16 , 12

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

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

2) 16 , 33

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

Factors of 33 _____ , _____ , _____ , _____

3) 36 , 16

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

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

4) 6 , 24

Factors of 6 _____ , _____ , _____ , _____

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

5) 12 , 6

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

Factors of 6 _____ , _____ , _____ , _____

6) 10 , 22

Factors of 10 _____ , _____ , _____ , _____

Factors of 22 _____ , _____ , _____ , _____

7) 28 , 36

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

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

8) 30 , 22

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

Factors of 22 _____ , _____ , _____ , _____

9) 33 , 42

Factors of 33 _____ , _____ , _____ , _____

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

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



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.

Answers

1) 16, 12

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

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

1. 4

2) 16, 33

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

Factors of 33 1 , 3 , 11 , 33

2. 1

3) 36, 16

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

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

3. 4

4) 6, 24

Factors of 6 1 , 2 , 3 , 6

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

4. 6

5) 12, 6

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

Factors of 6 1 , 2 , 3 , 6

5. 6

6) 10, 22

Factors of 10 1 , 2 , 5 , 10

Factors of 22 1 , 2 , 11 , 22

6. 2

7) 28, 36

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

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

7. 4

8) 30, 22

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

Factors of 22 1 , 2 , 11 , 22

8. 2

9) 33, 42

Factors of 33 1 , 3 , 11 , 33

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

9. 3



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) 6 , 21

Factors of 6 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

2) 27 , 28

Factors of 27 _____ , _____ , _____ , _____

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

3) 14 , 24

Factors of 14 _____ , _____ , _____ , _____

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

4) 24 , 45

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

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

5) 2 , 24

Factors of 2 _____ , _____

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

6) 14 , 18

Factors of 14 _____ , _____ , _____ , _____

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

7) 12 , 24

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

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

8) 2 , 45

Factors of 2 _____ , _____

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

9) 21 , 16

Factors of 21 _____ , _____ , _____ , _____

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

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



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.

Answers

1) 6 , 21

Factors of 6 1 , 2 , 3 , 6

Factors of 21 1 , 3 , 7 , 21

1. 3

2) 27 , 28

Factors of 27 1 , 3 , 9 , 27

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

2. 1

3. 2

4. 3

5. 2

6. 2

3) 14 , 24

Factors of 14 1 , 2 , 7 , 14

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

7. 12

8. 1

4) 24 , 45

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

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

9. 1

5) 2 , 24

Factors of 2 1 , 2

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

6) 14 , 18

Factors of 14 1 , 2 , 7 , 14

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

7) 12 , 24

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

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

8) 2 , 45

Factors of 2 1 , 2

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

9) 21 , 16

Factors of 21 1 , 3 , 7 , 21

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



Determine the greatest common factor (GCF) of each set of numbers.

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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.

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) 20 , 33

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

Factors of 33 _____ , _____ , _____ , _____

5) 4 , 26

Factors of 4 _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

6) 28 , 15

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

Factors of 15 _____ , _____ , _____ , _____

7) 10 , 12

Factors of 10 _____ , _____ , _____ , _____

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

8) 30 , 36

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

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

9) 39 , 22

Factors of 39 _____ , _____ , _____ , _____

Factors of 22 _____ , _____ , _____ , _____

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



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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.

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) 20 , 33

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

Factors of 33 1 , 3 , 11 , 33

4. 1

5) 4 , 26

Factors of 4 1 , 2 , 4

Factors of 26 1 , 2 , 13 , 26

5. 2

6) 28 , 15

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

Factors of 15 1 , 3 , 5 , 15

6. 1

7) 10 , 12

Factors of 10 1 , 2 , 5 , 10

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

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) 39 , 22

Factors of 39 1 , 3 , 13 , 39

Factors of 22 1 , 2 , 11 , 22

9. 1



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) 24 , 2

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

Factors of 2 _____ , _____

2) 30 , 22

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

Factors of 22 _____ , _____ , _____ , _____

3) 26 , 21

Factors of 26 _____ , _____ , _____ , _____

Factors of 21 _____ , _____ , _____ , _____

4) 18 , 24

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

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

5) 27 , 6

Factors of 27 _____ , _____ , _____ , _____

Factors of 6 _____ , _____ , _____ , _____

6) 6 , 24

Factors of 6 _____ , _____ , _____ , _____

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

7) 18 , 9

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

Factors of 9 _____ , _____ , _____

8) 45 , 42

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

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

9) 15 , 3

Factors of 15 _____ , _____ , _____ , _____

Factors of 3 _____ , _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



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.

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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.

Answers

1) 24 , 2

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

Factors of 2 1 , 2

1. 2

2) 30 , 22

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

Factors of 22 1 , 2 , 11 , 22

2. 2

3) 26 , 21

Factors of 26 1 , 2 , 13 , 26

Factors of 21 1 , 3 , 7 , 21

3. 1

4) 18 , 24

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

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

4. 6

5) 27 , 6

Factors of 27 1 , 3 , 9 , 27

Factors of 6 1 , 2 , 3 , 6

5. 3

6) 6 , 24

Factors of 6 1 , 2 , 3 , 6

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

6. 6

7) 18 , 9

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

Factors of 9 1 , 3 , 9

7. 9

8) 45 , 42

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

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

8. 3

9) 15 , 3

Factors of 15 1 , 3 , 5 , 15

Factors of 3 1 , 3

9. 3



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) 8 , 6

Factors of 8 _____ , _____ , _____ , _____

Factors of 6 _____ , _____ , _____ , _____

2) 28 , 10

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

Factors of 10 _____ , _____ , _____ , _____

3) 12 , 22

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

Factors of 22 _____ , _____ , _____ , _____

4) 24 , 18

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

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

5) 2 , 15

Factors of 2 _____ , _____

Factors of 15 _____ , _____ , _____ , _____

6) 15 , 12

Factors of 15 _____ , _____ , _____ , _____

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

7) 22 , 24

Factors of 22 _____ , _____ , _____ , _____

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

8) 20 , 42

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

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

9) 6 , 22

Factors of 6 _____ , _____ , _____ , _____

Factors of 22 _____ , _____ , _____ , _____

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



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.

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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) 8 , 6

Factors of 8 1 , 2 , 4 , 8

Factors of 6 1 , 2 , 3 , 6

2) 28 , 10

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

Factors of 10 1 , 2 , 5 , 10

3) 12 , 22

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

Factors of 22 1 , 2 , 11 , 22

4) 24 , 18

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

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

5) 2 , 15

Factors of 2 1 , 2

Factors of 15 1 , 3 , 5 , 15

6) 15 , 12

Factors of 15 1 , 3 , 5 , 15

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

7) 22 , 24

Factors of 22 1 , 2 , 11 , 22

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

8) 20 , 42

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

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

9) 6 , 22

Factors of 6 1 , 2 , 3 , 6

Factors of 22 1 , 2 , 11 , 22

Answers

1. 2

2. 2

3. 2

4. 6

5. 1

6. 3

7. 2

8. 2

9. 2



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.

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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 , 6

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

Factors of 6 _____ , _____ , _____ , _____

2) 24 , 4

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

Factors of 4 _____ , _____ , _____

3) 15 , 26

Factors of 15 _____ , _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

4) 42 , 20

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

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

5) 9 , 26

Factors of 9 _____ , _____ , _____

Factors of 26 _____ , _____ , _____ , _____

6) 36 , 28

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

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

7) 36 , 22

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

Factors of 22 _____ , _____ , _____ , _____

8) 12 , 9

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

Factors of 9 _____ , _____ , _____

9) 26 , 16

Factors of 26 _____ , _____ , _____ , _____

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

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



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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 , 6

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

Factors of 6 1 , 2 , 3 , 6

1. 6

2) 24 , 4

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

Factors of 4 1 , 2 , 4

2. 4

3) 15 , 26

Factors of 15 1 , 3 , 5 , 15

Factors of 26 1 , 2 , 13 , 26

3. 1

4) 42 , 20

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

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

4. 2

5) 9 , 26

Factors of 9 1 , 3 , 9

Factors of 26 1 , 2 , 13 , 26

5. 1

6) 36 , 28

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

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

6. 4

7) 36 , 22

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

Factors of 22 1 , 2 , 11 , 22

7. 2

8) 12 , 9

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

Factors of 9 1 , 3 , 9

8. 3

9) 26 , 16

Factors of 26 1 , 2 , 13 , 26

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

9. 2



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) 12 , 24

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

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

2) 33 , 45

Factors of 33 _____ , _____ , _____ , _____

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

3) 24 , 20

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

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

4) 8 , 45

Factors of 8 _____ , _____ , _____ , _____

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

5) 33 , 2

Factors of 33 _____ , _____ , _____ , _____

Factors of 2 _____ , _____

6) 26 , 24

Factors of 26 _____ , _____ , _____ , _____

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

7) 24 , 8

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

Factors of 8 _____ , _____ , _____ , _____

8) 14 , 2

Factors of 14 _____ , _____ , _____ , _____

Factors of 2 _____ , _____

9) 42 , 30

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____



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.

Answers

1) 12 , 24

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

1. 12

2) 33 , 45

Factors of 33 1 , 3 , 11 , 33
 Factors of 45 1 , 3 , 5 , 9 , 15 , 45

2. 3

3) 24 , 20

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24
 Factors of 20 1 , 2 , 4 , 5 , 10 , 20

3. 4

4) 8 , 45

Factors of 8 1 , 2 , 4 , 8
 Factors of 45 1 , 3 , 5 , 9 , 15 , 45

4. 1

5) 33 , 2

Factors of 33 1 , 3 , 11 , 33
 Factors of 2 1 , 2

5. 1

6) 26 , 24

Factors of 26 1 , 2 , 13 , 26
 Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

6. 2

7) 24 , 8

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

7. 8

8) 14 , 2

Factors of 14 1 , 2 , 7 , 14
 Factors of 2 1 , 2

8. 2

9) 42 , 30

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42
 Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

9. 6



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) 27 , 36

Factors of 27 _____ , _____ , _____ , _____

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

2) 42 , 30

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

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

3) 21 , 18

Factors of 21 _____ , _____ , _____ , _____

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

4) 39 , 33

Factors of 39 _____ , _____ , _____ , _____

Factors of 33 _____ , _____ , _____ , _____

5) 33 , 8

Factors of 33 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

6) 42 , 28

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

Factors of 28 _____ , _____ , _____ , _____ , _____ , _____

7) 27 , 8

Factors of 27 _____ , _____ , _____ , _____

Factors of 8 _____ , _____ , _____ , _____

8) 9 , 16

Factors of 9 _____ , _____ , _____

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

9) 6 , 36

Factors of 6 _____ , _____ , _____ , _____

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

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



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.

Answers

1) 27 , 36

Factors of 27 1 , 3 , 9 , 27

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

1. 9

2) 42 , 30

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

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

2. 6

3. 3

4. 3

3) 21 , 18

Factors of 21 1 , 3 , 7 , 21

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

5. 1

6. 14

7. 1

4) 39 , 33

Factors of 39 1 , 3 , 13 , 39

Factors of 33 1 , 3 , 11 , 33

8. 1

9. 6

5) 33 , 8

Factors of 33 1 , 3 , 11 , 33

Factors of 8 1 , 2 , 4 , 8

6) 42 , 28

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

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

7) 27 , 8

Factors of 27 1 , 3 , 9 , 27

Factors of 8 1 , 2 , 4 , 8

8) 9 , 16

Factors of 9 1 , 3 , 9

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

9) 6 , 36

Factors of 6 1 , 2 , 3 , 6

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