

**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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Answers

1) 33 , 24

Factors of 33 1 , 3 , 11 , 33Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

2) 6 , 33

Factors of 6 1 , 2 , 3 , 6Factors of 33 1 , 3 , 11 , 33

3) 33 , 8

Factors of 33 1 , 3 , 11 , 33Factors of 8 1 , 2 , 4 , 8

4) 16 , 12

Factors of 16 1 , 2 , 4 , 8 , 16Factors of 12 1 , 2 , 3 , 4 , 6 , 12

5) 24 , 14

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 14 1 , 2 , 7 , 14

6) 28 , 22

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 22 1 , 2 , 11 , 22

7) 12 , 6

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

8) 30 , 12

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30Factors of 12 1 , 2 , 3 , 4 , 6 , 12

9) 21 , 39

Factors of 21 1 , 3 , 7 , 21Factors of 39 1 , 3 , 13 , 391. 32. 33. 14. 45. 26. 27. 68. 69. 3

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

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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.**

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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) 45 , 12

Factors of 45 1 , 3 , 5 , 9 , 15 , 45Factors of 12 1 , 2 , 3 , 4 , 6 , 12

2) 18 , 21

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 21 1 , 3 , 7 , 21

3) 14 , 39

Factors of 14 1 , 2 , 7 , 14Factors of 39 1 , 3 , 13 , 39

4) 15 , 18

Factors of 15 1 , 3 , 5 , 15Factors of 18 1 , 2 , 3 , 6 , 9 , 18

5) 3 , 12

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

6) 12 , 28

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 28 1 , 2 , 4 , 7 , 14 , 28

7) 3 , 22

Factors of 3 1 , 3Factors of 22 1 , 2 , 11 , 22

8) 12 , 30

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30

9) 18 , 20

Factors of 18 1 , 2 , 3 , 6 , 9 , 18Factors of 20 1 , 2 , 4 , 5 , 10 , 201. 32. 33. 14. 35. 36. 47. 18. 69. 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 , 16Factors of 12 1 , 2 , 3 , 4 , 6 , 12

2) 16, 33

Factors of 16 1 , 2 , 4 , 8 , 16Factors of 33 1 , 3 , 11 , 33

3) 36, 16

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 16 1 , 2 , 4 , 8 , 16

4) 6, 24

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

5) 12, 6

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

6) 10, 22

Factors of 10 1 , 2 , 5 , 10Factors of 22 1 , 2 , 11 , 22

7) 28, 36

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

8) 30, 22

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30Factors of 22 1 , 2 , 11 , 22

9) 33, 42

Factors of 33 1 , 3 , 11 , 33Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 421. 42. 13. 44. 65. 66. 27. 48. 29. 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.

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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) 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.**

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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, 21

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

2) 27, 28

Factors of 27 1 , 3 , 9 , 27Factors of 28 1 , 2 , 4 , 7 , 14 , 28

3) 14, 24

Factors of 14 1 , 2 , 7 , 14Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

4) 24, 45

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 45 1 , 3 , 5 , 9 , 15 , 45

5) 2, 24

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

6) 14, 18

Factors of 14 1 , 2 , 7 , 14Factors of 18 1 , 2 , 3 , 6 , 9 , 18

7) 12, 24

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

8) 2, 45

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

9) 21, 16

Factors of 21 1 , 3 , 7 , 21Factors of 16 1 , 2 , 4 , 8 , 161. 32. 13. 24. 35. 26. 27. 128. 19. 1

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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) 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 , 6Factors of 9 1 , 3 , 9

2) 45, 33

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

3) 45, 20

Factors of 45 1 , 3 , 5 , 9 , 15 , 45Factors of 20 1 , 2 , 4 , 5 , 10 , 20

4) 20, 33

Factors of 20 1 , 2 , 4 , 5 , 10 , 20Factors of 33 1 , 3 , 11 , 33

5) 4, 26

Factors of 4 1 , 2 , 4Factors of 26 1 , 2 , 13 , 26

6) 28, 15

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 15 1 , 3 , 5 , 15

7) 10, 12

Factors of 10 1 , 2 , 5 , 10Factors of 12 1 , 2 , 3 , 4 , 6 , 12

8) 30, 36

Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

9) 39, 22

Factors of 39 1 , 3 , 13 , 39Factors of 22 1 , 2 , 11 , 221. 32. 33. 54. 15. 26. 17. 28. 69. 1

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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. _____



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

Factors of 2 1 , 2

2) 30 , 22

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

Factors of 22 1 , 2 , 11 , 22

3) 26 , 21

Factors of 26 1 , 2 , 13 , 26

Factors of 21 1 , 3 , 7 , 21

4) 18 , 24

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

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

5) 27 , 6

Factors of 27 1 , 3 , 9 , 27

Factors of 6 1 , 2 , 3 , 6

6) 6 , 24

Factors of 6 1 , 2 , 3 , 6

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

7) 18 , 9

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

Factors of 9 1 , 3 , 9

8) 45 , 42

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

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

9) 15 , 3

Factors of 15 1 , 3 , 5 , 15

Factors of 3 1 , 3

Answers

1. 2

2. 2

3. 1

4. 6

5. 3

6. 6

7. 9

8. 3

9. 3

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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. _____

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6. _____

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1) 8 , 6

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

2) 28 , 10

Factors of 28 1 , 2 , 4 , 7 , 14 , 28Factors of 10 1 , 2 , 5 , 10

3) 12 , 22

Factors of 12 1 , 2 , 3 , 4 , 6 , 12Factors of 22 1 , 2 , 11 , 22

4) 24 , 18

Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24Factors of 18 1 , 2 , 3 , 6 , 9 , 18

5) 2 , 15

Factors of 2 1 , 2Factors of 15 1 , 3 , 5 , 15

6) 15 , 12

Factors of 15 1 , 3 , 5 , 15Factors of 12 1 , 2 , 3 , 4 , 6 , 12

7) 22 , 24

Factors of 22 1 , 2 , 11 , 22Factors of 24 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

8) 20 , 42

Factors of 20 1 , 2 , 4 , 5 , 10 , 20Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

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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. _____

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9. _____

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1) 24 , 6

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

2) 24 , 4

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

3) 15 , 26

Factors of 15 1 , 3 , 5 , 15Factors of 26 1 , 2 , 13 , 26

4) 42 , 20

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42Factors of 20 1 , 2 , 4 , 5 , 10 , 20

5) 9 , 26

Factors of 9 1 , 3 , 9Factors of 26 1 , 2 , 13 , 26

6) 36 , 28

Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36Factors of 28 1 , 2 , 4 , 7 , 14 , 28

7) 36 , 22

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

9) 26 , 16

Factors of 26 1 , 2 , 13 , 26Factors of 16 1 , 2 , 4 , 8 , 161. 62. 43. 14. 25. 16. 47. 28. 39. 2

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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. _____

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To find the GCF of 12 & 16, first write down the factors of each number.

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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.

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1) 12 , 24

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

2) 33 , 45

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

3) 24 , 20

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

4) 8 , 45

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

5) 33 , 2

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

6) 26 , 24

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

7) 24 , 8

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

8) 14 , 2

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

9) 42 , 30

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 301. 122. 33. 44. 15. 16. 27. 88. 29. 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.**

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

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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) 27, 36

Factors of 27 1 , 3 , 9 , 27Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 36

2) 42, 30

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

3) 21, 18

Factors of 21 1 , 3 , 7 , 21Factors of 18 1 , 2 , 3 , 6 , 9 , 18

4) 39, 33

Factors of 39 1 , 3 , 13 , 39Factors of 33 1 , 3 , 11 , 33

5) 33, 8

Factors of 33 1 , 3 , 11 , 33Factors of 8 1 , 2 , 4 , 8

6) 42, 28

Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42Factors of 28 1 , 2 , 4 , 7 , 14 , 28

7) 27, 8

Factors of 27 1 , 3 , 9 , 27Factors of 8 1 , 2 , 4 , 8

8) 9, 16

Factors of 9 1 , 3 , 9Factors of 16 1 , 2 , 4 , 8 , 16

9) 6, 36

Factors of 6 1 , 2 , 3 , 6Factors of 36 1 , 2 , 3 , 4 , 6 , 9 , 12 , 18 , 361. 92. 63. 34. 35. 16. 147. 18. 19. 6