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) 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 ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor

Name: **Answer Key**

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) 33 , 24

Factors of 33 1 , 3 , 11 , 33

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

2) 6 , 33

Factors of 6 1 , 2 , 3 , 6

Factors of 33 1 , 3 , 11 , 33

3) 33 , 8

Factors of 33 1 , 3 , 11 , 33

Factors of 8 1 , 2 , 4 , 8

4) 16 , 12

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

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

5) 24 , 14

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

Factors of 14 1 , 2 , 7 , 14

6) 28 , 22

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

Factors of 22 1 , 2 , 11 , 22

7) 12 , 6

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

Factors of 6 1 , 2 , 3 , 6

8) 30 , 12

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

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

9) 21 , 39

Factors of 21 1 , 3 , 7 , 21

Factors of 39 1 , 3 , 13 , 39

Answers

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

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

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) 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 ____ , ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 45 , 12

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

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

2) 18 , 21

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

Factors of 21 1 , 3 , 7 , 21

3) 14 , 39

Factors of 14 1 , 2 , 7 , 14

Factors of 39 1 , 3 , 13 , 39

4) 15 , 18

Factors of 15 1 , 3 , 5 , 15

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

5) 3 , 12

Factors of 3 1 , 3

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

6) 12 , 28

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

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

7) 3 , 22

Factors of 3 1 , 3

Factors of 22 1 , 2 , 11 , 22

8) 12 , 30

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

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

9) 18 , 20

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

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

Answers

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

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

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) 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 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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

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

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

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

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

6) 10 , 22
Factors of 10 1 , 2 , 5 , 10
Factors of 22 1 , 2 , 11 , 22

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

8) 30 , 22
Factors of 30 1 , 2 , 3 , 5 , 6 , 10 , 15 , 30
Factors of 22 1 , 2 , 11 , 22

9) 33 , 42
Factors of 33 1 , 3 , 11 , 33
Factors of 42 1 , 2 , 3 , 6 , 7 , 14 , 21 , 42

Answers

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

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

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) 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 ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 6 , 21

Factors of 6 1 , 2 , 3 , 6

Factors of 21 1 , 3 , 7 , 21

2) 27 , 28

Factors of 27 1 , 3 , 9 , 27

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

3) 14 , 24

Factors of 14 1 , 2 , 7 , 14

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

4) 24 , 45

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

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

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

Answers

1. 3
2. 1
3. 2
4. 3
5. 2
6. 2
7. 12
8. 1
9. 1

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

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) 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 ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 6 , 9

Factors of 6 1 , 2 , 3 , 6

Factors of 9 1 , 3 , 9

2) 45 , 33

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

Factors of 33 1 , 3 , 11 , 33

3) 45 , 20

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

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

4) 20 , 33

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

Factors of 33 1 , 3 , 11 , 33

5) 4 , 26

Factors of 4 1 , 2 , 4

Factors of 26 1 , 2 , 13 , 26

6) 28 , 15

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

Factors of 15 1 , 3 , 5 , 15

7) 10 , 12

Factors of 10 1 , 2 , 5 , 10

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

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

9) 39 , 22

Factors of 39 1 , 3 , 13 , 39

Factors of 22 1 , 2 , 11 , 22

Answers

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

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

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 , 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 ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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 , 2

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

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

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) 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 ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 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

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

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 , 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 ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor

Name: **Answer Key**

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 , 6

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

Factors of 6 1 , 2 , 3 , 6

2) 24 , 4

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

Factors of 4 1 , 2 , 4

3) 15 , 26

Factors of 15 1 , 3 , 5 , 15

Factors of 26 1 , 2 , 13 , 26

4) 42 , 20

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

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

5) 9 , 26

Factors of 9 1 , 3 , 9

Factors of 26 1 , 2 , 13 , 26

6) 36 , 28

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

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

7) 36 , 22

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

Factors of 22 1 , 2 , 11 , 22

8) 12 , 9

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

Factors of 9 1 , 3 , 9

9) 26 , 16

Factors of 26 1 , 2 , 13 , 26

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

Answers

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

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

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) 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 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 12 , 24

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

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

2) 33 , 45

Factors of 33 1 , 3 , 11 , 33

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

3) 24 , 20

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

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

4) 8 , 45

Factors of 8 1 , 2 , 4 , 8

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

5) 33 , 2

Factors of 33 1 , 3 , 11 , 33

Factors of 2 1 , 2

6) 26 , 24

Factors of 26 1 , 2 , 13 , 26

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

7) 24 , 8

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

Factors of 8 1 , 2 , 4 , 8

8) 14 , 2

Factors of 14 1 , 2 , 7 , 14

Factors of 2 1 , 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

Answers

1. 12
2. 3
3. 4
4. 1
5. 1
6. 2
7. 8
8. 2
9. 6

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

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) 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 ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

Answers

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

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

Finding Greatest Common Factor Name: **Answer Key**

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) 27 , 36

Factors of 27 1 , 3 , 9 , 27

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

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

3) 21 , 18

Factors of 21 1 , 3 , 7 , 21

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

4) 39 , 33

Factors of 39 1 , 3 , 13 , 39

Factors of 33 1 , 3 , 11 , 33

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

Answers

1. 9
2. 6
3. 3
4. 3
5. 1
6. 14
7. 1
8. 1
9. 6

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