



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) 30, 8

Factors of 30 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 8 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

4) 15, 18

Factors of 15 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 18 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

5) 33, 45

Factors of 33 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 45 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

6) 12, 28

Factors of 12 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 28 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

7) 18, 28

Factors of 18 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Factors of 28 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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. \_\_\_\_\_



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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.

**Answers**

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) 30, 8

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

Factors of 8 1 , 2 , 4 , 8

4) 15, 18

Factors of 15 1 , 3 , 5 , 15

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

5) 33, 45

Factors of 33 1 , 3 , 11 , 33

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

6) 12, 28

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

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

7) 18, 28

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

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

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

1. 3

2. 3

3. 2

4. 3

5. 3

6. 4

7. 2

8. 6

9. 2