



Name: _____

Date: _____

1. What is the greatest common factor (GCF) of 36 and 24?

2. What is the least common multiple (LCM) of 8 and 10?

80

40

32

48

3. How many factors does 28 have?

4

5

6

7

4. What is the prime factorization of 12?

 $2 \times 2 \times 2 \times 3$ $2 \times 3 \times 3$ $2 \times 2 \times 3$ $2 \times 2 \times 5$

5. 35 red and 21 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

6

7

14

8



6. The chart lists the factors of 4 and 10, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 2)

4:	1	2	4	
10:	1	2	5	10

7. What is the greatest common factor (GCF) of 20 and 8?

8. What is the least common multiple (LCM) of 8 and 4?

9. How many factors does 24 have?

10

8

9

6

10. What is the prime factorization of 36?

$2 \times 2 \times 5$

$2 \times 3 \times 3$

$2 \times 2 \times 3$

$2 \times 2 \times 3 \times 3$



11. 16 red and 12 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

5

8

3

4

12. The chart lists the factors of 8 and 12, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 4)

8:

1

2

4

8

12:

1

2

3

4

6

12

13. What is the greatest common factor (GCF) of 16 and 12?

3

8

4

5

14. What is the least common multiple (LCM) of 4 and 6?

16

24

8

12

15. How many factors does 18 have?



16. What is the prime factorization of 20?

$2 \times 2 \times 5$

$2 \times 2 \times 3$

$2 \times 3 \times 3$

$2 \times 2 \times 2 \times 3$

17. 24 red and 24 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

18. The chart lists the factors of 6 and 15, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 3)

6: 1 2 3 6

15: 1 3 5 15



Answer Key

1. **12** GCF of 36 and 24 is 12.
2. **40** LCM of 8 and 10 is 40.
3. **6** Factors of 28: 1, 2, 4, 7, 14, 28 - that is 6.
4. **$2 \times 2 \times 3$** $12 = 2 \times 2 \times 3$.
5. **7** The greatest number of equal groups is the GCF of 35 and 21 = 7.
6. **2** Shared factors of 4 and 10: 1, 2. The greatest is 2.
7. **4** GCF of 20 and 8 is 4.
8. **8** LCM of 8 and 4 is 8.
9. **8** Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24 - that is 8.
10. **$2 \times 2 \times 3 \times 3$** $36 = 2 \times 2 \times 3 \times 3$.
11. **4** The greatest number of equal groups is the GCF of 16 and 12 = 4.
12. **4** Shared factors of 8 and 12: 1, 2, 4. The greatest is 4.
13. **4** GCF of 16 and 12 is 4.
14. **12** LCM of 4 and 6 is 12.
15. **6** Factors of 18: 1, 2, 3, 6, 9, 18 - that is 6.
16. **$2 \times 2 \times 5$** $20 = 2 \times 2 \times 5$.
17. **24** The greatest number of equal groups is the GCF of 24 and 24 = 24.
18. **3** Shared factors of 6 and 15: 1, 3. The greatest is 3.