



Name: _____

Date: _____

1. What is the greatest common factor (GCF) of 16 and 9?

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

3. How many factors does 20 have?

☐ 7 ☐ 6 ☐ 4 ☐ 5

4. 15 red and 10 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

5. The chart lists the factors of 18 and 12, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 6)

18:	1	2	3	6	9	18
12:	1	2	3	4	6	12



6. What is the greatest common factor (GCF) of 18 and 18?

7. What is the least common multiple (LCM) of 3 and 6?

8. How many factors does 30 have?

8 6 9 7

9. 21 red and 35 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

8 7 14 6

10. The chart lists the factors of 9 and 6, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 3)

9: 1 3 9

6: 1 2 3 6



11. What is the greatest common factor (GCF) of 24 and 8?

12. What is the least common multiple (LCM) of 3 and 5?

12

20

18

15

13. 15 red and 6 blue beads are split into identical groups with no beads left over. What is the GREATEST number of groups?

14. The chart lists the factors of 8 and 20, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 4)

8:

1

2

4

8

20:

1

2

4

5

10

20

15. What is the greatest common factor (GCF) of 48 and 12?



16. What is the least common multiple (LCM) of 8 and 5?

45

40

32

48

17. 25 red and 10 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 12 and 20, with shared factors in green. What is their greatest common factor?

Factors (shared in green, GCF = 4)

12:

1

2

3

4

6

12

20:

1

2

4

5

10

20

8

3

4

5



Answer Key

1. **1** GCF of 16 and 9 is 1.
2. **6** LCM of 6 and 6 is 6.
3. **6** Factors of 20: 1, 2, 4, 5, 10, 20 - that is 6.
4. **5** The greatest number of equal groups is the GCF of 15 and 10 = 5.
5. **6** Shared factors of 18 and 12: 1, 2, 3, 6. The greatest is 6.
6. **18** GCF of 18 and 18 is 18.
7. **6** LCM of 3 and 6 is 6.
8. **8** Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30 - that is 8.
9. **7** The greatest number of equal groups is the GCF of 21 and 35 = 7.
10. **3** Shared factors of 9 and 6: 1, 3. The greatest is 3.
11. **8** GCF of 24 and 8 is 8.
12. **15** LCM of 3 and 5 is 15.
13. **3** The greatest number of equal groups is the GCF of 15 and 6 = 3.
14. **4** Shared factors of 8 and 20: 1, 2, 4. The greatest is 4.
15. **12** GCF of 48 and 12 is 12.
16. **40** LCM of 8 and 5 is 40.
17. **5** The greatest number of equal groups is the GCF of 25 and 10 = 5.
18. **4** Shared factors of 12 and 20: 1, 2, 4. The greatest is 4.