Aksum Math

Name: _____

Factors, LCM & GCF

Date: _____

Numbers & Patterns · Grade 6

Score: _____ / 10

Easy · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. What is the greatest common factor (GCF) of 8 and 12?

Answer: _____

2. Find the GCF of 15 and 20.

Answer: _____

3. Find the GCF of 6 and 9.

Answer: _____

4. Find the GCF of 10 and 25.

Answer: _____

5. Find the LCM of 4 and 6.

Answer: _____

6. Find the LCM of 3 and 5.

Answer: _____

7. List all factors of 18.

Answer: _____

8. Is 23 prime or composite?

Answer: _____

9. Is 21 prime or composite?

Answer: _____

10. What are the prime factors of 12?

Answer: _____

Answer Key

Factors, LCM & GCF — Easy

1. **4**

Factors of 8: 1,2,4,8. Factors of 12: 1,2,3,4,6,12. Greatest common: 4.

2. **5**

Factors of 15: 1,3,5,15. Factors of 20: 1,2,4,5,10,20. GCF = 5.

3. **3**

Factors of 6: 1,2,3,6. Factors of 9: 1,3,9. GCF=3.

4. **5**

Factors of 10: 1,2,5,10. Factors of 25: 1,5,25. GCF=5.

5. **12**

Multiples of 4: 4,8,12. Multiples of 6: 6,12. LCM=12.

6. **15**

Multiples of 3: 3,6,9,12,15. Multiples of 5: 5,10,15. LCM=15.

7. **1, 2, 3, 6, 9, 18**

Pairs that multiply to 18: 1×18, 2×9, 3×6.

8. **Prime**

23 has only two factors: 1 and 23. So it is prime.

9. **Composite**

21 = 3 × 7, so it has more than two factors → composite.

10. **2 and 3**

12 = 2 × 2 × 3. Prime factors are 2 and 3.