Aksum Math

Name: _____

Factors & Prime Numbers

Date: _____

Numbers & Patterns · Grade 4

Score: _____ / 10

◆ Medium · 10 Questions

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

1. Is 91 prime or composite? Explain.

Answer: _____

2. Find all prime numbers between 20 and 40.

Answer: _____

3. List all factors of 24.

Answer: _____

4. List all factors of 36.

Answer: _____

5. Is 53 prime or composite?

Answer: _____

6. Is 39 prime or composite?

Answer: _____

7. List the first 5 multiples of 7.

Answer: _____

8. List the first 4 multiples of 9.

Answer: _____

9. Is 48 a multiple of 8?

Answer: _____

10. What is the smallest prime number?

Answer: _____

Answer Key

Factors & Prime Numbers — Medium

1. **Composite. 91 = 7 × 13.**

Try dividing by small primes: 91÷7=13. So 91=7×13. Composite.

2. **23, 29, 31, 37**

Check each: 21=3×7, 22=2×11, 23 prime, 24=2^3×3, 25=5^2, 26=2×13, 27=3^3, 28=2^2×7, 29 prime, 30=2×3×5, 31 prime, 32=2^5, 33=3×11, 34=2×17, 35=5×7, 36=2^2×3^2, 37 prime, 38=2×19, 39=3×13.

3. **1, 2, 3, 4, 6, 8, 12, 24**

Pairs: 1×24, 2×12, 3×8, 4×6.

4. **1, 2, 3, 4, 6, 9, 12, 18, 36**

Pairs: 1×36, 2×18, 3×12, 4×9, 6×6.

5. **Prime**

53 has no factors except 1 and 53.

6. **Composite. 39 = 3 × 13.**

39 ÷ 3 = 13.

7. **7, 14, 21, 28, 35**

7 × 1, 7 × 2, 7 × 3, 7 × 4, 7 × 5.

8. **9, 18, 27, 36**

9 × 1, 9 × 2, 9 × 3, 9 × 4.

9. **Yes (48 ÷ 8 = 6)**

48 ÷ 8 = 6 with no remainder.

10. **2**

2 is the smallest prime (and the only even prime).
