

Spring Valley Elementary – Grade 6 Math Quiz Review

Name: _____ Date: _____

Section A – Prime and Composite Numbers

1. Write the definition of a prime number:

2. Write the definition of a composite number:

3. Identify whether each number below is prime or composite.

a) 11 → _____ b) 18 → _____ c) 23 → _____ d) 25 → _____

4. Circle all the prime numbers: 7 9 10 17 21 31

Section B – Factor Trees

5. Draw a factor tree for 48 below.

6. What is the prime factorization of 48? _____

7. Challenge: Create your own number between 50 and 100 and make a factor tree for it!

Number: _____ Prime factorization: _____

Section C – GCF and LCM Practice

8. List all the factors of 12: _____

List all the factors of 18: _____

→ What is the greatest common factor (GCF)? _____

9. List the first 6 multiples of 6: _____

List the first 6 multiples of 8: _____

→ What is the lowest common multiple (LCM)? _____

10. Explain how GCF and LCM are different:

Section D – Real-World Practice

11. A baker is making 20 muffins and 30 cupcakes. She wants to arrange them into boxes with the same number of items in each box and no leftovers.

- What is the greatest number of boxes she can make?
- How many items will be in each box?

12. Two clocks chime at the same time.

- One chimes every 15 minutes.
- The other chimes every 20 minutes.

When will they chime together again?

Bonus Practice

13. Write three consecutive prime numbers between 30 and 50.

14. Write three consecutive composite numbers between 10 and 20.
