

Name: _____

Period: _____ Date: _____

Divisibility- Answers

Section I. Fill in the blank.

1. A number is divisible by two if the units digit is even.
2. A number is divisible by 3 if the sum of its digits is divisible by 3.
3. A number is divisible by 6 if it is divisible by both 2 and 3.
4. A number is divisible by five if it ends in 0 or 5.
5. A number is divisible by four if the last 3 digits are divisible by 4.
6. A number is divisible by 9 if the sum of its digits is divisible by 9.
7. A number is divisible by ten if the units digit is 0.
8. A number is divisible by 50 it ends in 00 or 50.
9. A number is divisible by 100 if it ends in 00.

Section II. Determine if the given number is divisible by 2, 3, 4, 5, 6, 9, 10, 50, 100, or by none of them. Write all possibilities.

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|-------------|-------------|----------------|-------------------------------|
| 10. 81 | 3, 9 | 11. 36 | 2, 3, 4, 6, 9 |
| 12. 3,408 | 2, 3, 4, 6 | 13. 64,750 | 2, 3, 5, 6, 10, 50 |
| 14. 71,535 | 3, 5, 9 | 15. 12,803,100 | 2, 3, 4, 5, 6, 10, 50, 100 |
| 16. 8,402 | 2 | 17. 37,800 | 2, 3, 4, 5, 6, 9, 10, 50, 100 |
| 18. 804,340 | 2, 4, 5, 10 | 19. 810 | 2, 3, 5, 6, 9, 10 |
| 20. 725 | 5 | 21. 972 | 2, 3, 4, 6, 9 |