

Modular Arithmetic Quiz

January 3, 2014

Name: _____ Period: _____

Evaluate each modular arithmetic expression.

1. $11 \bmod 5$

6. $162 \bmod 150$

2. $109 \bmod 100$

7. $162 \bmod 162$

3. $0 \bmod 255$

8. $75 \bmod 15$

4. $12 \bmod 5$

9. $305 \bmod 10$

5. $38 \bmod 45$

10. $51 \bmod 11$

11. If the current time is 5:00PM, what time will it be in 42 hours?

12. If the current time is 12:12AM, what time was it 100 hours ago?

13. If today is Monday, what day of the week will it be in 75 days?

14. If today is Thursday, what day of the week was it 35 days ago?

BONUS 1: $-11 \bmod 3$

BONUS 2: $-16 \bmod 7$