



SM 2

Name: _____

Period: _____

SM2 4.1—Number Theory and Divisibility Rules

1. In your own words, explain how to tell whether a real number is rational or irrational.

Identify all of the following number systems that each number belongs to: *natural numbers, whole numbers, integers, rational numbers, irrational numbers, real numbers, imaginary numbers, complex numbers.*

2. 0

3. $\frac{3}{4}$

4. -14

5. $\sqrt{2}$

6. $\overline{0.352}$

7. $\sqrt{36}$

8. $-\pi$

9. $\sqrt{-25}$

Determine if the number is divisible by 2, 3, 4, 5, 6, 8, 9, 10. Write all that apply.

10. 15

11. 72

12. 400

13. 120

14. 49

15. 144

16. 24

17. 13