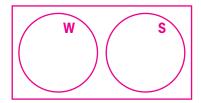
NAME DATE

Module Test (B)

Module 1

- 1. From the set $\{-7, -3.4, -\frac{7}{8}, 0, 3\frac{1}{2}, \sqrt{5}, \sqrt{49}\}$

 - **a.** Name all integers. $\frac{-7, 0, \sqrt{49}}{}$ **b.** Name all rational numbers. $\frac{-7, -3.4, -\frac{7}{8}, 0, 3\frac{1}{2}, \sqrt{49}}{}$
 - c. Name all real numbers. $-7, -3.4, -\frac{7}{8}, 0, 3\frac{1}{2}, \sqrt{5}, \sqrt{49}$
 - **d.** Name all irrational numbers. $\sqrt{5}$
 - e. Name all whole numbers. $0, \sqrt{49}$
- 2. In the space below, draw a Venn diagram illustrating the relationship between the whole numbers and the irrational numbers.



3. If possible, name a rational number that is *not* a real number.

This is not possible; all rational numbers are real numbers.

- 4. Identify all the sets of numbers to which each of the following belong:
 - a. -11.1 rational, real
 - b. -8 integer, rational, real
 - c. $\frac{\pi}{4}$ irrational, real
 - d. $-\frac{17}{5}$ rational, real
 - e. 0 whole, integer, rational, real

5. In the space below, graph on a number line –5, – π , –1.73, 0, $\frac{15}{4}$, $\sqrt{17}$.



Simplify, if possible.

6. 15 + (–8)

7

8. (6)(–9)

-54

10. 7 + (-1) + 8 + (-13)

12. -5.9 - 2.7

-8.6

- **14.** $\left(-\frac{2}{17}\right) \div \left(-\frac{8}{85}\right) \frac{5}{4}$ or $1\frac{1}{4}$
- **16.** -5^2

-25

18. $\sqrt[3]{-27}$

-3

20. $\sqrt{-4}$

not a real number

22. $5^3 - 3^2$

116

24. $7[3(5-7)] \div 2(\sqrt{9})$

-63

7. -9 - (-11)

- **11.** $\left(\frac{4}{7}\right) + \left(-\frac{3}{4}\right)$
- **13.** (-11.7)(-2.1)

24.57

undefined or not possible

17. $-\sqrt{36}$

19. (–2)³

21. 7 - 2(5 - 9)

15

23. $\frac{15-3(-7)}{-7-5}$

25. $13 + 7\left\{-3(4|7 - 15|) + \frac{18}{6}\right\} \div 7$

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