

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. _____
 - b. Name all rational numbers. _____
 - c. Name all real numbers. _____
 - d. Name all irrational numbers. _____
 - e. Name all whole numbers. _____

2. In the space below, draw a Venn diagram illustrating the relationship between the whole numbers and the irrational numbers.

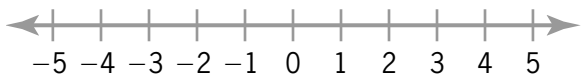
3. If possible, name a rational number that is *not* a real number.

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

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



Simplify, if possible.

6. $15 + (-8)$

7. $-9 - (-11)$

8. $(6)(-9)$

9. $\frac{0}{-15}$

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

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

12. $-5.9 - 2.7$

13. $(-11.7)(-2.1)$

14. $\left(-\frac{2}{17}\right) \div \left(-\frac{8}{85}\right)$

15. $\frac{2}{3} \left(-\frac{15}{7}\right) \left(\frac{3}{0}\right) \left(\frac{-7}{11}\right) \left(-\frac{5}{11}\right)$

16. -5^2

17. $-\sqrt{36}$

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

19. $(-2)^3$

20. $\sqrt{-4}$

21. $7 - 2(5 - 9)$

22. $5^3 - 3^2$

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

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

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