

NAME _____

DATE _____

Module Test

A

Module 1

1. From the set $\{-4, -\pi, -2.2, -\frac{3}{4}, 0, \frac{1}{2}, \sqrt{7}, \sqrt{25}\}$,
 - a. Name all integers. _____
 - b. Name all rational numbers. _____
 - c. Name all real numbers. _____
 - d. Name all irrational numbers. _____
 - e. Name all whole numbers. _____

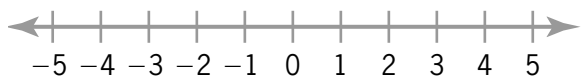
2. In the space below, draw a Venn diagram illustrating the relationship between the natural numbers and the integers.

3. If possible, name a whole number that is *not* a natural number.

4. Identify all the sets of numbers to which each of the following belong:
 - a. 7.3 _____
 - b. -2 _____
 - c. $-\pi$ _____
 - d. $-\frac{5}{3}$ _____
 - e. 0 _____



5. In the space below, graph on a number line -3.12 , -1 , 0 , π , $\sqrt{15}$.



Simplify, if possible.

6. $-7 + 12$

8. $(-5)(-7)$

10. $5 + (-9) + 1 + (-10)$

12. $-3.2 - 4.5$

14. $\left(-\frac{7}{11}\right) \div \left(-\frac{35}{22}\right)$

16. -3^2

18. $\sqrt[3]{-64}$

20. $\sqrt{-1}$

22. $3^3 - 2^2$

24. $5[2(3 - 6)] \div 3(\sqrt{4})$

7. $5 - (-3)$

9. $\frac{-12}{0}$

11. $\left(-\frac{3}{4}\right) + \left(-\frac{5}{8}\right)$

13. $(12.5)(-1.2)$

15. $\left(\frac{5}{7}\right)\left(-\frac{7}{15}\right)\left(\frac{0}{5}\right)\left(-\frac{6}{11}\right)\left(\frac{33}{49}\right)$

17. $-\sqrt{49}$

19. $(-5)^3$

21. $5 - 3(2 - 7)$

23. $\frac{12 - 2(-5)}{-9 - 2}$

25. $11 + 3\left\{-2(5|2 - 9|) + \frac{15}{3}\right\} \div 5$
