

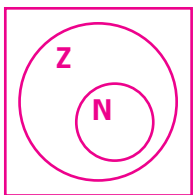
NAME _____

DATE _____

Module Test **A**

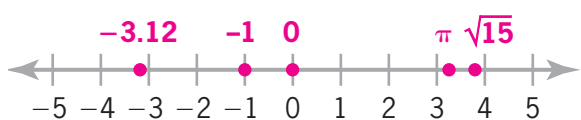
Module 1

- From the set $\{-4, -\pi, -2.2, -\frac{3}{4}, 0, \frac{1}{2}, \sqrt{7}, \sqrt{25}\}$,
 - Name all integers. $-4, 0, \sqrt{25}$
 - Name all rational numbers. $-4, -2.2, -\frac{3}{4}, 0, \frac{1}{2}, \sqrt{25}$
 - Name all real numbers. $-4, -\pi, -2.2, -\frac{3}{4}, 0, \frac{1}{2}, \sqrt{7}, \sqrt{25}$
 - Name all irrational numbers. $-\pi, \sqrt{7}$
 - Name all whole numbers. $0, \sqrt{25}$
- In the space below, draw a Venn diagram illustrating the relationship between the natural numbers and the integers.



- If possible, name a whole number that is *not* a natural number.
0
- Identify all the sets of numbers to which each of the following belong:
 - 7.3 rational, real
 - 2 integer, rational, real
 - $-\pi$ irrational, real
 - $-\frac{5}{3}$ rational, real
 - 0 whole, integer, rational, real

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



Simplify, if possible.

6. $-7 + 12$

5

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

35

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

-13

12. $-3.2 - 4.5$

-7.7

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

$\frac{2}{5}$

16. -3^2

-9

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

-4

20. $\sqrt{-1}$

not a real number

22. $3^3 - 2^2$

23

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

-5

7. $5 - (-3)$

8

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

undefined or not possible

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

$-\frac{11}{8}$ or $-1\frac{3}{8}$

13. $(12.5)(-1.2)$

-15

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

0

17. $-\sqrt{49}$

-7

19. $(-5)^3$

-125

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

20

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

-2

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

-28