

CYU 1.2 Symbols & Sets of Numbers Day TWO

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Integers	1, 2, 3, 5	4, 7	10, 13
Absolute Value	16, 17, 18, 19		20
Natural & Whole Numbers	4, 5, 7	11	13, 15
Real numbers	4, 5, 6, 7, 8, 9	12	
Rational & Irrational Numbers	4, 5, 8, 9	6, 7	10, 14
Inequalities	16, 17, 18, 19		

1. Use the integers to represent the values in the statement: *The highest elevation in California is Mr. Whitney, with an altitude of 14,494 feet. The lowest elevation in California is Death Valley, with an altitude of 282 feet below sea level.*

14,494; -282

2. Use the integers to represent the values in the statement: *The number of graduate students at the University of Texas at Austin is 28,000 fewer than the number of undergraduate students.*

-28,000

3. Use the integers to represent the values in the statement: *Aaron Miller deposited \$350 in his savings account. He later withdrew \$126.*

350; -126

4. Determine which number sets zero belongs to. *whole, integers, rational, real*

5. Determine which number sets - 2 belong to. *integers, rational, real*

6. Determine which number sets $\frac{1}{4}$ belongs to. *rational, real*

7. Determine which number sets 6 belongs to.

natural, whole, integers, rational, real

8. Determine which number sets $\frac{2}{3}$ belongs to.

rational, real

9. Determine which number sets $-\sqrt{5}$ belongs to.

irrational, real

10. Determine if the statement is true or false: Every rational number is also an integer. False, $\frac{1}{2}$

11. Determine if the statement is true or false: Every natural number is positive. True

12. Determine if the statement is true or false: 0 is a real number. True

13. Determine if the statement is true or false: Every whole number is an integer. True

14. Determine if the statement is true or false: A number can be both rational and irrational. False mutually exclusive

15. Determine if the statement is true or false: Every whole number is positive.

False; -2

16. Insert <, >, or = in the appropriate space to make a true statement. $|-5| > -4$

17. Insert <, >, or = in the appropriate space to make a true statement. $|-1| = |1|$

18. Insert <, >, or = in the appropriate space to make a true statement. $|-2| < |-3|$

19. Insert <, >, or = in the appropriate space to make a true statement. $|0| < |-8|$

20. In your own words, explain how to find the absolute value of a number.

Subtract the two numbers. Then make sure the value is positive. OR you can graph your value on a number line and count spaces to zero.

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

