

**CYU 1.5 Adding Real 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
Real World Application	5	1, 2, 3, 4	
Additive Inverse/Opposites	6		
Simplifying Expressions	7		
Checking Solutions	8		

- The low temperature in Anoka, Minnesota, was  $-15^{\circ}$  last night. During the day, it rose only  $9^{\circ}$ . Find the high temperature for the day.
- On January 2, 1943, the temperature was  $-4^{\circ}$  at 7:30 a.m. in Spearfish, South Dakota. Incredibly, it got  $49^{\circ}$  warmer in the next 2 minutes. To what temperature did it rise by 7:32?
- The lowest point in Africa is  $-512$  feet at Lake Assal in Djibouti. If you are standing at a point 658 feet above Lake Assal, what is your elevation?
- The lowest elevation in Australia is  $-52$  feet at Lake Eyre. If you are standing at a point 439 feet above Lake Eyre, what is your elevation?
- In golf, scores that are under par for the entire round are shown as negative scores; positive scores are shown for scores over par, and par is zero. During the 2015 Hyundai Tournament in Maui, Hawaii, Patrick Reed won with scores of  $-6$ ,  $-4$ ,  $-5$ , &  $-6$ . What was his overall score?

6. Find each additive inverse, or the opposite value.

a. 6                      b. 4                      c. -2                      d. -8

e. 0                      f.  $-\frac{1}{4}$                       g.  $|-6|$                       h.  $|-11|$

7. Simplify each expression.

a.  $-|-2|$                       b.  $-(-3)$                       c.  $-|0|$

d.  $|\frac{-2}{3}|$                       e.  $-\frac{2}{3}$                       f.  $-(-7)$

8. Decide if the given number is a solution of the given equation. Show work.

a. Is -4 a solution of  $x + 9 = 5$ ?

b. Is 10 a solution of  $7 = -x + 3$ ?

c. Is -1 a solution of  $y + (-3) = -7$ ?

d. Is -6 a solution of  $1 = y + 7$ ?

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**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.

