

SNO-CONES

Four children (including Val), bought different flavored sno-cones (one was candy flavored), and each had a different number of scoops (one had 3 scoops.)
 From the clues below can you determine which child bought which flavored sno-cone and how many scoops each had?

CLUES

Valerie either had 5 vanilla scoops or 3 strawberry scoops.

Vance was not the one who had 4-candy flavored scoops.

Sue had one more scoop than did Sam (who did not have the fewest scoops).

A boy chose the strawberry flavored sno-cone.

sno-cones	2	3	4	5	Chocolat	Vanilla	S.berry	Candy
Valerie								
Sue								
Sam								
Vance								
Chocolat								
Vanilla								
S.berry								
Candy								

(SEE NEXT PAGE FOR DETAILED SOLUTION)

SNO CONES

Valerie 5 -Vanilla.
Sue 4 -Candy.
Sam 3- Strawberry.
Vance 2- Chocolate .

Step-by-step

- This first clue "**Valerie either had 5 vanilla scoops or 3 strawberry scoops.**"

This clue is giving us the information to allow us to make the following eliminations from Row:

Valerie - 2, 4, Chocolate, and Candy.

- This next clue : "**Vance was not the one who had 4-candy flavored scoops.**"

Here we are given one solution, (**4-Candy**), which allows us to make these eliminations in 4's Column:

4 - Vance, Vanilla, Chocolate, and Strawberry, Followed by eliminations in the **Candy** row:

Candy - 2, 3, 5.

- Next we are given the clue : "**Sue had one more scoop than did Sam(who did not have the fewest scoops).**"

Exploring the last part of this clue first ("**Sam, who did not have the fewest**"), which allows us to eliminate

Sam-2 as well as **Sue - 2, and 3.** (Which reveals the only solution for Column 2, namely **Vance-2**), which of course allows for the elimination of these grid squares in Vance's row :

Vance - 3, , 5 and Candy.

- The last clue states : "**A boy chose the strawberry flavored sno-cone.**"

Which implies neither Sue nor Valerie purchased strawberry, which allows the elimination of

Val-S.Berry and **Sue-S.Berry**, which in turn leads to the solution **Val-Vanilla.**

(With the subsequent eliminations for Vanilla's Column) :

Vanilla - Sue, Sam, and Vance.

Now recalling our initial clue "**Valerie either had ...** " allows us to solve **Val-5** , while eliminating **5 - Sue, Sam, Chocolate, and S.berry,**

(which in turn reveals the solutions **Sue-4** , and **Sam-3**) ,

(and since the person who had 3-scoops also had S.berry), then this person can only be Sam , and Vance had 2 scoops of chocolate!

- Congratulations! Puzzle solved. To summarize:
Valerie 5 -Vanilla.
Sue 4 -Candy.
Sam 3- Strawberry.
Vance 2- Chocolate .