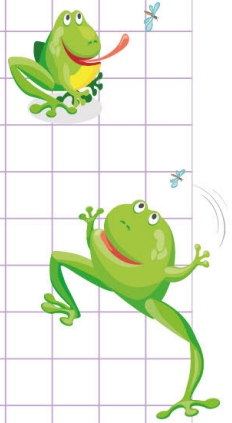


Name: Class:

Solve word problems using guess-and-check

1. Two frogs caught 17 flies in a day's hunt for food. The smaller frog caught 1 more fly than the big frog. How many flies did each frog catch?



2. I am a three digit number. I have a 2 in the tens place and a 5 in the ones place. I am greater than 260. I am also less than 335. What number am I?



Name: Class:

Solve word problems using guess-and-check

1. Two frogs caught 17 flies in a day's hunt for food. The smaller frog caught 1 more fly than the big frog. How many flies did each frog catch?

To solve this, we need to guess two pairs of numbers, whose sum is equal to 17 and whose difference is equal to 1.

Let's draw a guess and check table to solve this.



1 st guess	2 nd guess	Difference	Sum	Check
1	0	$1 - 0 = 1$	$1 + 0 = 1$	Not equal to 17
2	1	$2 - 1 = 1$	$2 + 1 = 3$	Not equal to 17
3	2	$3 - 2 = 1$	$3 + 2 = 5$	Not equal to 17
4	3	$4 - 3 = 1$	$4 + 3 = 7$	Not equal to 17
5	4	$5 - 4 = 1$	$5 + 4 = 9$	Not equal to 17
6	5	$6 - 5 = 1$	$6 + 5 = 11$	Not equal to 17
7	6	$7 - 6 = 1$	$7 + 6 = 13$	Not equal to 17
8	7	$8 - 7 = 1$	$8 + 7 = 15$	Not equal to 17
9	8	$9 - 8 = 1$	$9 + 8 = 17$	Equal to 17 (correct)

So, you see that the correct guess numbers are 9 and 8.

Since the smaller frog caught 1 more fly than the big frog, it implies that, the small frog caught 9 flies and the big frog caught 8 flies.

2. I am a three digit number. I have a 2 in the tens place and a 5 in the ones place. I am greater than 260. I am also less than 335. What number am I?

To solve this, let's draw a guess-and-check table and find the digit in the hundred place.

H - place guess digit	T - place digit	O - place digit	Number	Check
2	2	5	225	Not correct
3	2	5	325	Correct

So, I am 325 because it is greater than 260 and less than 335.

