

Figure 3.16: Fourth-grade true or false public record.

True or False

$7 \times 0 = 0$ → No value T

7 groups of 0 0 0 0 0 0 0 0
Nothing in each group

$0 \times 6 = 6$ F

0 groups of 6
No groups of 6
No groups to multiply

We need groups

$10 \times 0 = 100$ F

would make it true. 10 groups 10 groups of 0

$10 \times 10 = 100$
 $100 \div 10 = 10$

$0 \times 9 = 0$

$\times 0$ will equal 0
0 groups of 9 is 0
If we did $5 \times 9 = 45$
No groups
 $9 \times 0 = 0$ can switch

<u>True Equations</u>	<u>Conjectures</u>
$7 \times 0 = 0$	If all numbers multiply by 0, the answer will be 0.
$0 \times 6 = 0$	
$10 \times 0 = 0$	Any equation that multiplies by 0 is 0.
$0 \times 9 = 0$	