

<b>Problem Number</b>	<b>Correct Answer</b>	<b>Incorrect Answer and Probable Mistake</b> <i>If you don't find the error here it may be an arithmetic error—or a combination of errors not predictable!</i>
1	16	6 put addition before subtraction (watch “Aunt Sally”)
2	39	32 did addition before division
3	43	135 subtraction before division
4	7	4 applied the exponent incorrectly -2 multiplication before parentheses (did not multiply 2 by 3) -5 misused the distributive property (check #5 to see whether this is a pattern with this student—will also show up in #7)
5	8	11 did not do parentheses first/multiplication before subtraction
6	20	144 subtraction before any multiplication 180 subtraction before second multiplication—student is working left to right regardless of operation
7	10	10 subtraction before multiplication OR ignoring brackets 2 ignoring parentheses -2 used the distributive property rather than doing parentheses first AND missed the sign change when removing parentheses
8	104	58 applied exponents incorrectly 616 multiplied before exponents 464 exponents first and then worked from left to right regardless of operation 115600 working completely from left to right
9	66	36 ignored parentheses 90 addition before multiplication 28 changed multiplication to addition inside the parentheses and applied the distributive property
10	4	7 or 5 division (incorrectly—into one term of the numerator) before applying the grouping symbol (fraction bar) 6 division (“cancelled the 2’s) before applying the grouping symbol (fraction bar)