

HOW TO CALCULATE ACTUAL UNDUPLICATED COUNT OF STUDENTS, NUMBER OF STUDENTS IN NONCOMPLIANCE WITH THE PHYSICAL EXAMINATION REQUIREMENT ONLY, AND TOTAL NUMBER OF STUDENTS IN NONCOMPLIANCE

Jane Doe is a school nurse for a middle school that serves grades 6, 7, and 8. She is compiling state-mandated immunization data for school year 2009-2010 for the first time. Everything looks great but she is a little confused by how to calculate the actual unduplicated count of students, the number of students in noncompliance with the physical examination requirement only, and the total number of students in noncompliance.

Here is the immunization situation of the school as of October 15, 2009: There are 125 students in grade 6. Of these, 110 students were found to be fully protected and in compliance. Another six students are unprotected but in compliance. Of the six, one has a valid religious objection, one has an approved schedule from a physician/clinic for completion of required doses on file or deferrals due to possible shortages in vaccine, and another four provided medical objections from physicians. This means 116 out of 125 students are in compliance.

The remaining students were noncompliant for various disease categories, as well as for health examinations. To make her life a little easier, Jane creates a table of the students' compliance status for various disease categories and health examinations, including students who are excluded from school for one or more days for noncompliance.

Noncompliance Status for Grade 6 Students

| Student ID # | Noncompliant in Polio | Noncompliant in DTP/DTaP/Td | Noncompliant in Measles | Noncompliant in Rubella | Noncompliant in Mumps | Noncompliant in Hepatitis B | Noncompliant in Hib | Noncompliant in Varicella | Noncompliant in Health Exam | Actual Unduplicated Count | Noncompliant in Health Exam only | Excluded for One or More Days for Noncompliance |
|--------------------|-----------------------|-----------------------------|-------------------------|-------------------------|-----------------------|-----------------------------|---------------------|---------------------------|-----------------------------|---------------------------|----------------------------------|---|
| 111111111 | Y | N | N | N | N | N | NA | NA | Y | 1 | | 1 |
| 222222222 | N | Y | Y | Y | Y | N | NA | NA | N | 1 | | |
| 333333333 | N | N | N | N | N | N | NA | NA | Y | | 1 | |
| 444444444 | N | N | N | N | N | Y | NA | NA | N | 1 | | |
| 555555555 | N | N | N | N | N | N | NA | NA | Y | | 1 | |
| 666666666 | N | N | Y | N | N | N | NA | NA | Y | 1 | | |
| 777777777 | N | N | Y | N | Y | N | NA | NA | N | 1 | | |
| 888888888 | N | N | N | N | Y | N | NA | NA | N | 1 | | 1 |
| 999999999 | N | Y | Y | N | N | Y | NA | NA | N | 1 | | |
| Total Count | | | | | | | | | | 7 | 2 | 2 |

Jane is now able to calculate the actual unduplicated student count (**7**), the number of students noncompliant for the physical examination requirement only (**2**), and the total number of noncompliant students (**7 + 2 = 9**).

Jane had also recorded the number grade 6 students excluded from school for one or more days for noncompliance (**2**).

Using similar tables for grades 7 and 8, Jane will be able to calculate the total counts for the school by adding together the totals from each grade.