

Equivalent Ratio Word Problem Worksheet

1. The Superintendent of Highways is interested in the numbers of commercial vehicles that frequently use the county's highways. He obtains information from the Department of Motor Vehicles for the month of September and finds that for every 14 non-commercial vehicles, there were 5 commercial vehicles. If there were 108 more non-commercial vehicles than commercial vehicles, how many of each type of vehicle frequently use the county's highways during the month of September?

2. At a country concert, the ratio of the number of boys to the number of girls is 2:7. If there are 250 more girls than boys, how many boys are at the concert?

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Non-Commercial Vehicles



Commercial Vehicles



These 9 sections represent the "more than commercial vehicles," which is 108.

To determine how many cars each section represents, divide 108 by 9 to get 12.

Therefore, each section of the tape diagram represents 12 vehicles.

2. At a country concert, the ratio of the number of boys to the number of girls is 2:7. If there are 250 more girls than boys, how many boys are at the concert?

There are 100 boys at the country concert.