### Lesson 1 Practice Problems

1. This two-way table shows the results of asking students if they prefer to have gym class in the morning or the afternoon.

|  |  |  |  |
| --- | --- | --- | --- |
|  | * morning | * afternoon | * total |
| * grade 6 | * 15 | * 8 | * 23 |
| * grade 8 | * 18 | * 21 | * 39 |
| * grade 10 | * 12 | * 26 | * 38 |
| * total | * 45 | * 55 | * 100 |

* 1. How many students participated in the survey?
  2. How many students in grade 8 prefer to have gym in the morning?
  3. How many grade 10 students participated in the survey?
  4. How many students prefer to have gym in the afternoon?

1. A random sample of adults are asked about their preferences for a first dinner date with someone. Complete the two-way table so that it has the characteristics listed.
   * 122 people responded to the survey.
   * 50 of the people who said they order dessert said they also prefer to split the check.
   * 68 people prefer splitting the check.
   * 56 people prefer to skip dessert rather than ordering one.

|  |  |  |
| --- | --- | --- |
|  | * order dessert | * no dessert |
| * split the check |  |  |
| * one person pays |  |  |



1. Students in the 7th, 8th, and 9th grade were asked whether they prefer to write in pen or pencil.
   * 40 students prefer to write in pen.
   * 60 students prefer to write in pencil.

* Create values that could represent the number of students in the 7th, 8th, and 9th grade that responded to the survey.

1. A recent study observed the number of bike riders ages 0 to 20 that wear helmets. The results are represented in the table.

|  |  |  |
| --- | --- | --- |
|  | * wear helmet | * did not wear helmet |
| * 0-5 years | * 21 | * 4 |
| * 6-10 years | * 34 | * 14 |
| * 11-15 years | * 14 | * 18 |
| * 15-20 years | * 3 | * 12 |

* Make an observation based on a data value that is not in the table. Explain your reasoning.



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