### Lesson 7 Practice Problems

1. What is the final elevation if
   1. A bird starts at 20 m and changes 16 m?
   2. A butterfly starts at 20 m and changes -16 m?
   3. A diver starts at 5 m and changes -16 m?
   4. A whale starts at -9 m and changes 11 m?
   5. A fish starts at -9 meters and changes -11 meters?
2. One of the particles in an atom is called an electron. It has a charge of -1. Another particle in an atom is a proton. It has charge of +1. The charge of an atom is the sum of the charges of the electrons and the protons. A carbon atom has an overall charge of 0, because it has 6 electrons and 6 protons and . Find the overall charge for the rest of the elements on the list.

|  | * charge from electrons | * charge from protons | * overall charge |
| --- | --- | --- | --- |
| * carbon | * -6 | * +6 | * 0 |
| * neon | * -10 | * +10 |  |
| * oxide | * -10 | * +8 |  |
| * copper | * -27 | * +29 |  |
| * tin | * -50 | * +50 |  |

1. Add.
2. Select **all** the true statements.

* (From Unit 7, Lesson 5.)

1. Last week, the price, in dollars, of a gallon of gasoline was . This week, the price of gasoline per gallon increased by 5%. Which expressions represent this week's price, in dollars, of a gallon of gasoline? Select **all** that apply.

* (From Unit 6, Lesson 5.)

1. A family goes to a restaurant. When the bill comes, this is printed at the bottom of it:

|  |
| --- |
| * Gratuity Guide For Your Convenience: 15% would be $4.89 18% would be $5.87 20% would be $6.52 |

* How much was the price of the meal? Explain your reasoning.
* (From Unit 6, Lesson 7.)



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