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Date: \_\_\_\_\_  
CCSS: 7.EE.2

## Homework 11 Percents

### **EXPRESSIONS AND EQUATIONS (7.EE. 2)**

Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

1. The current population of a city can be represented by  $p$ . The population is expected to increase by 6.5% next year. Write an expression in simplest form that represents the expected population next year.

2. Helen has an unknown quantity of money ( $m$ ). Ingrid has \$50 more than Helen. Write an expression that represents the total amount of money that Helen and Ingrid have.

3. Doreen bought a cell phone for  $x$  dollars. One year later the value of the phone was  $0.75x$ . Which expression is another way to describe the value of the phone?

- a) 0.25% decrease
- b) 0.75% decrease
- c) 25% decrease
- d) 75% decrease

4. Evelyn has a coupon that will reduce her grocery bill by 8%. If  $c$  represents the cost of Evelyn's groceries, which expression represents Evelyn's grocery bill?

- a)  $c - 0.08$
- b)  $c + 0.92$
- c)  $0.08c$
- d)  $0.92c$

5. Fernando had a job babysitting. He earned  $d$  dollars per hour. The chart below shows how many hours Fernando worked at his job during one week. Write an expression, in terms of  $d$ , to show how much Fernando for the week. Write the expression in simplest terms.

Days	Hours Worked
Monday	6
Tuesday	2.5
Wednesday	3
Thursday	4.5
Friday	3