Math 7 Period	
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Name_____

7.4 Proportions and Percents End of Unit Review Date_____

Place of Power

Please **read carefully**. Answer the questions and <u>reread</u> the problems carefully to be sure that you have followed the directions. You may use a calculator for this assessment.

Show your work and explain your answers!

1. For each percentage, find a matching statement to describe it. Show your work!

$$GG. y = x$$

HH.
$$y = 1.5x$$

II.
$$y = 0.25x$$

JJ.
$$y = 0.1x$$

KK.
$$y = 0.75x$$

LL.
$$y = 1.1x$$

- 2. Jackson sells 40% more cars than Owen. Owen sells 160 cars. How many cars does Jackson sell? **Show your work!**
- 3. Leilani made 25 good luck cards this year. Ella made 40% fewer cards than Leilani. How many cards did Ella make? **Show your work!**

- 4. Solve each problem. Explain or show your reasoning. Show your work!
 - A. What is 25% of 160?

C. 13 is 50% of what number?

B. What is 150% of 32?

D. 21 is what percentage of 30?

- 5. Charlie has a recipe for banana bread. Alivia will follow the same recipe. She will make 30% less than Charlie. Which of these equations represents the relationship between a the quantity that Alivia makes and c the quantity that Charlie makes? Show your work!
 - a) a = 0.3c
 - b) a = 0.7c
 - c) a = 1.3c
 - d) a = 30c
- 6. Diego measured the length of a pen to be 22 cm. The actual length of the pen is 25 cm.
 - A. What was the error, expressed in cm? Show your work!
 - B. What is the percent error for Diego's measurement? Show your work!

Sample Answers:

1. $a \rightarrow JJ$, $b \rightarrow II$, $c \rightarrow HH$, $d \rightarrow KK$, $e \rightarrow LL$, $f \rightarrow GG$

2. 224 cars 3. 15 cards

4. A. 40 B. 48 C. 26 D. 70%

5. b

6A. 3cm B. 12%

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