

Mathematics Grade 8 Unit 06 – Rubric 1

Grade/Subject/(Course)

Grade 8 / Matemáticas, Mathematics

Course Version

Performance Assessment(s)

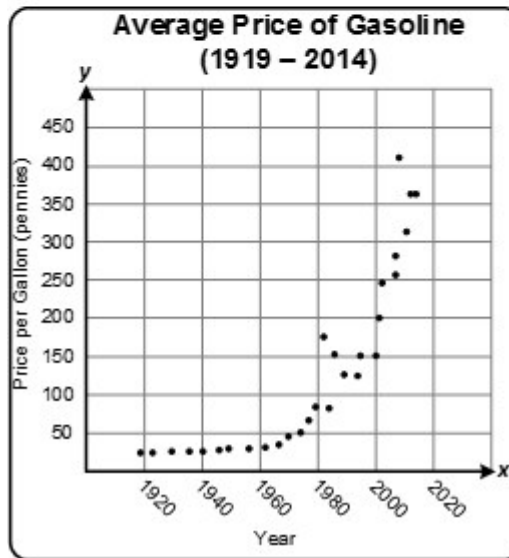
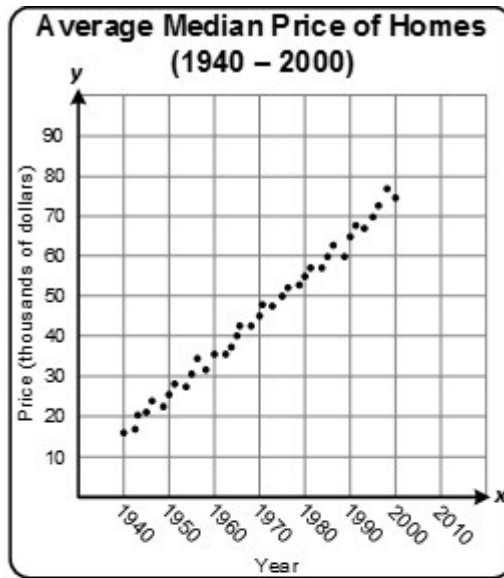
Mathematics Grade 8 Unit 06 PA 01

Analyze the problem situation(s) described below. Organize and record your work for each of the following tasks. Using precise mathematical language, justify and explain each solution process.

1. A minimum wage is the lowest hourly, daily, or monthly amount that employers must legally pay to workers. The United States Department of Labor introduced the Fair Labor Standards Act in 1938. Today the minimum wage is at the same hourly rate as it was in 2009. The table below shows the minimum wage rate and its respective year.

Date	Amount	Date	Amount
1956	\$1.00	1980	\$3.10
1961	\$1.15	1981	\$3.35
1963	\$1.25	1990	\$3.80
1964	\$1.40	1991	\$4.25
1965	\$1.60	1996	\$4.75
1974	\$2.00	1997	\$5.15
1975	\$2.10	2007	\$5.85
1976	\$2.30	2008	\$6.55
1978	\$2.65	2009	\$7.25
1979	\$2.90	2013	\$7.25

- a. Construct a scatterplot that accurately represents the minimum wage data and the year.
 - b. Describe the association of the observed data as linear, non-linear, or no association.
 - c. Draw a trend line that approximates the relationship between the year and minimum wage.
 - d. Describe the trend of the graph as positive, negative, or no trend.
 - e. Use the trend line to predict the minimum wage in the year 2020.
2. As the minimum wage increased, the price of certain items increased as well.
 - a. Compare and contrast the relationships with the sets of data displayed in the graphs below and describe the associations in the graphs as linear, non-linear, or no association.



Standard(s): [8.1A](#) , [8.1B](#) , [8.1C](#) , [8.1D](#) , [8.1E](#) , [8.1F](#) , [8.1G](#) , [8.5C](#) , [8.5D](#) , [8.11A](#)

ELPS [ELPS.c.1A](#) , [ELPS.c.2C](#) , [ELPS.c.2D](#) , [ELPS.c.2E](#) , [ELPS.c.3C](#) , [ELPS.c.3D](#) , [ELPS.c.3H](#) , [ELPS.c.4C](#) , [ELPS.c.4D](#) , [ELPS.c.4F](#) , [ELPS.c.4H](#) , [ELPS.c.5B](#) , [ELPS.c.5F](#) , [ELPS.c.5G](#)