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Unit 7, Lesson 14

Practice Problems

1. Evaluate each expression. Use scientific notation to express your answer.

a. $(1.5 \times 10^2)(5 \times 10^{10})$

b. $\frac{4.8 \times 10^{-8}}{3 \times 10^{-3}}$

c. $(5 \times 10^8)(4 \times 10^3)$

d. $(7.2 \times 10^3) \div (1.2 \times 10^5)$

2. How many bucketloads would it take to bucket out the world's oceans? Write your answer in scientific notation.

Some useful information:

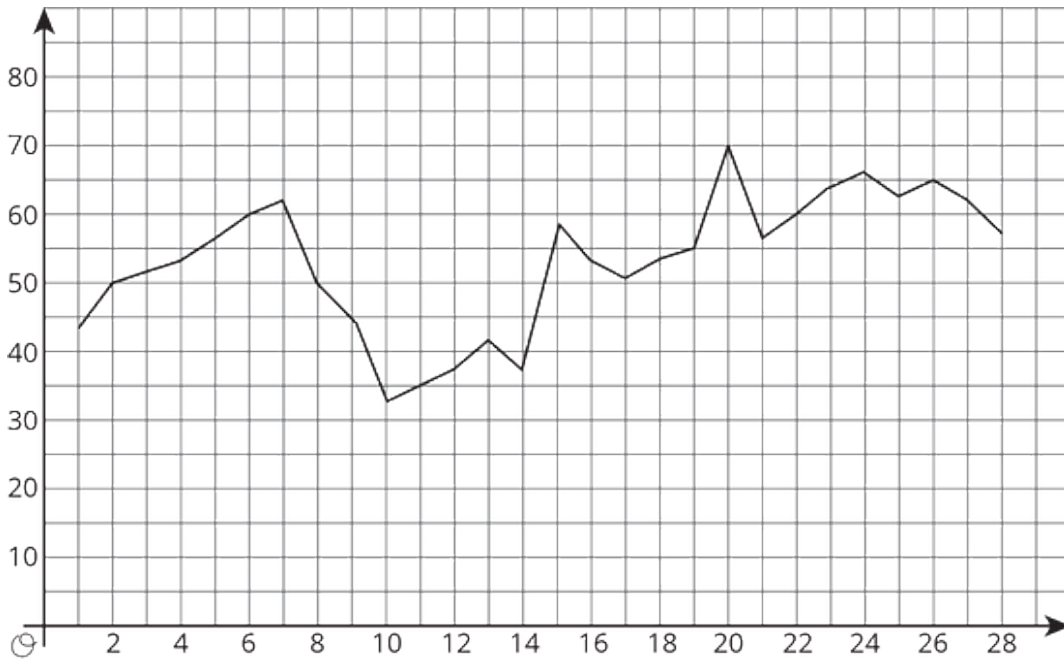
- The world's oceans hold roughly 1.4×10^9 cubic kilometers of water.
- A typical bucket holds roughly 20,000 cubic centimeters of water.
- There are 10^{15} cubic centimeters in a cubic kilometer.

3. The graph represents the closing price per share of stock for a company each day for 28 days.

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- a. What variable is represented on the horizontal axis?
- b. In the first week, was the stock price generally increasing or decreasing?
- c. During which period did the closing price of the stock decrease for at least 3 days in a row?

4. Write an equation for the line that passes through $(-8.5, 11)$ and $(5, -2.5)$.

5. Explain why triangle ABC is similar to triangle CFE .

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