

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

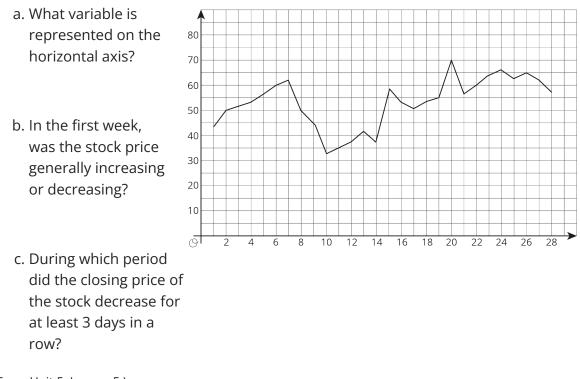
2. How many bucketloads would it take to bucket out the world's oceans? Write your answer in scientific notation.

Some useful information:

- $^\circ\,$ The world's oceans hold roughly $1.4\times10^9\,$ cubic kilometers of water.
- $^{\circ}$ A typical bucket holds roughly 20,000 cubic centimeters of water.
- $^{\circ}\,$ 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.



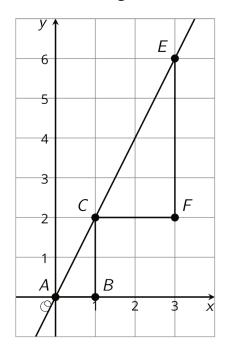
(From Unit 5, Lesson 5.)

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

(From Unit 3, Lesson 11.)



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



(From Unit 2, Lesson 6.)