Lesson 9: Practice Problems

1. Find the quotients:

$24 \div -6$ ✓ -4

$-15 \div 0.3$ ✓ -50

$-4 \div -20$ ✓ $+.2$

2. Find the quotients.

a. $\frac{2}{5} \div \frac{3}{4}$ $\frac{2}{5} \times \frac{4}{3} = \frac{8}{15}$

b. $\frac{9}{4} \div \frac{-3}{4}$ $\frac{\cancel{9}^{3}}{\cancel{4}_{1}} \times \frac{\cancel{-4}^{1}}{\cancel{3}_{1}} = -3$

c. $\frac{-5}{7} \div \frac{-1}{3}$ $\frac{-5}{7} \times \frac{-3}{1} = \frac{15}{7}$ or $2\frac{1}{7}$

d. $\frac{-5}{3} \div \frac{1}{6}$ $\frac{-5}{3} \cdot \frac{6}{1} = \frac{-30}{3} = -10$

3. Is the solution positive or negative?

a. $2 \cdot x = 6$ positive

b. $-2 \cdot x = 6.1$ negative

c. $2.9 \cdot x = -6.04$ negative

d. $-2.473 \cdot x = -6.859$ positive

4. Find the solution mentally.

   a. $3 \cdot (-4) = a$ -12

   b. $b \cdot (-3) = -12$ 4

   c. $(-12) \cdot c = 12$ -1

   d. $d \cdot 24 = -12$ -1/2

5. In order to make a specific shade of green paint, a painter mixes $1\frac{1}{2}$ quarts of blue paint, 2 cups of green paint, and $\frac{1}{2}$ gallon of white paint. How much of each color is needed to make 100 cups of this shade of green paint?

6. Here is a list of the highest and lowest elevation on each continent.

	highest point (m)	lowest point (m)
Europe	4,810	-28
Asia	8,848	-427
Africa	5,895	-155
Australia	4,884	-15
North America	6,198	-86
South America	6,960	-105
Antarctica	4,892	-50

   a. Which continent has the largest difference in elevation? The smallest?

   b. Make a display (dot plot, box plot, or histogram) of the data set and explain why you chose that type of display to represent this data set.