Name _____ Date _____

Multiplying and Dividing Rational Numbers: Signs, Fractions and Decimals

Directions: Answer each question. Type number answers with digits, a minus sign for a negative answer, and a decimal point when needed.

1. Find the product $(-8) \times (-1.5)$.

_____

2. Jordan takes $15 out of his savings account every week for 6 weeks and puts nothing in. What is the total change in his savings over the 6 weeks, in dollars? Use a negative number for a decrease.

_____ dollars

3. Over 3 hours, a hiker's elevation changes by $-1{,}260$ feet at a steady rate. What is the change in elevation for each hour, in feet? Use a negative number for a drop.

_____ feet

4. What is $(-3/5) \div (6/25)$? Type your answer as a decimal.

_____

5. Which expressions are equal to $-3/4$? Select the 3 that apply.

☐ A. $(-3)/(-4)$ ☐ B. -0.75 ☐ C. $(-3)/4$

☐ D. $3/(-4)$ ☐ E. 0.75 ☐ F. $-4/3$

6. What is $-5 \div 6$ written as a decimal?

A. 0.8333..., with the 3 repeating B. -1.2

C. -0.83 D. $-0.8333...$, with the 3 repeating

7. Find $(-0.25) \times 37 \times (-4)$.

_____

8. Nadia found $(-2) \times (-3) \times (-5) \div 10$. Her work is shown.

1. $(-2) \times (-3) = 6$
2. $6 \times (-5) = 30$
3. $30 \div 10 = 3$

Which step has the first mistake?

A. There is no mistake. B. $6 \times (-5) = 30$

C. $30 \div 10 = 3$ D. $(-2) \times (-3) = 6$