

Name: Answer Key
 Multiplying and Dividing Fractions Homework

$$1. \frac{-6 \cdot -2}{1 \cdot 5} = \frac{12}{5} = 2 \frac{2}{5}$$

$N \cdot N = P$

$$2. 1 \frac{1}{2} \div -2 \frac{1}{4} =$$

$$\frac{3}{2} \div -\frac{9}{4}$$

$$\frac{3}{2} \cdot -\frac{4^2}{9^2} = -\frac{2}{3}$$

$$3. \frac{-7 \cdot -1}{1 \cdot 5} = \frac{7}{5} = 1 \frac{2}{5}$$

$$4. \frac{-4 \cdot 5}{1 \cdot 7} = -\frac{4}{7}$$

$$5. -5 \frac{5}{8} \div -1 \frac{11}{16} =$$

$$-\frac{45}{8} \div -\frac{27}{16}$$

$$5 \frac{45}{8} \cdot \frac{16^2}{27^2} = \frac{10}{3} = 3 \frac{1}{3}$$

$$6. -\frac{3}{10} \cdot -2 \frac{1}{2} =$$

$$\frac{3}{20} \cdot \frac{5}{2} = \frac{3}{4}$$

$$7. -\frac{4}{5} \div \frac{8}{1}$$

$$-\frac{4}{5} \cdot \frac{1}{8^2} = -\frac{1}{10}$$

$$8. -6 \frac{1}{8} \div \frac{7}{3}$$

$$-\frac{49}{8} \div \frac{7}{3}$$

$$-\frac{49^7}{8} \cdot \frac{3}{7^2} = -\frac{21}{8} = -2 \frac{5}{8}$$

(turn over)

9. The Nike Stock has decreased in value by $\frac{3}{8}$ of a dollar for the last 5 days. Write an expression to represent this situation. What value represents the change in the stock.

$$-\frac{3}{8} \cdot 5$$

$$-\frac{15}{8} = -1\frac{7}{8}$$

10. A student solved the following problem:

$$-2\frac{7}{10} \div 4\frac{1}{5}$$

And got $11\frac{17}{50}$. What error(s) do you believe the student made?

$$-\frac{27}{10} \div \frac{21}{5}$$

$$\frac{27}{10} \cdot \frac{21}{5} = \frac{567}{50} = 11\frac{17}{50}$$

$$-\frac{27}{10} \cdot \frac{5}{21}$$

$$\begin{array}{r} 27 \\ 21 \\ \hline 27 \\ 500 \\ \hline 567 \end{array}$$

they forgot to make the 2ND fraction a reciprocal.