

**Math 6 - Unit 1: Number System Fluency**  
End of Unit Study Guide

Name: KEY

Class Period: 1 2 3 4 Date: \_\_\_\_\_

<p>1) <math>\frac{2}{7} \div \frac{1}{14} =</math> <b>KCF</b></p> $\frac{2}{7} \times \frac{14}{1} = \frac{4}{1} = 4$ $\frac{2}{7} \times \frac{14}{1} = \frac{28}{7} = 4$ <p>Answer: _____</p>	<p>2) <math>9\frac{3}{4} \div 2\frac{1}{8} =</math> <b>KCF</b></p> $\frac{39}{4} \div \frac{17}{8} = \frac{39}{4} \cdot \frac{8}{17} = \frac{78}{17} = 4\frac{10}{17}$ $17 \overline{) 78} \begin{array}{r} 4 \\ -68 \\ \hline 10 \end{array} \quad \frac{17}{4} = 4\frac{1}{4}$ <p>Answer: _____</p>
<p>3) <math>25.19 + 8.3 + 43 =</math> <b>4.30</b></p> $\begin{array}{r} 25.19 \\ 8.30 \\ 43.00 \\ \hline 76.49 \end{array}$ <p>Answer: <u>76.49</u></p>	<p>4) <math>2.7 \cdot 9.6 =</math></p> $\begin{array}{r} 27 \\ 96 \\ \hline 162 \\ 2430 \\ \hline 2592 \end{array}$ <p>Answer: <u>25.92</u></p>
<p>5) <math>10.1 - 3.07 =</math></p> $\begin{array}{r} 10.10 \\ - 3.07 \\ \hline 7.03 \end{array}$ <p>Answer: <u>7.03</u></p>	<p>6)</p> $112 \overline{) 170.24} = 1.52$ $\begin{array}{r} 112 \overline{) 170.24} \\ -112 \downarrow \\ \hline 582 \\ -560 \downarrow \\ \hline 224 \\ -224 \\ \hline 0 \end{array}$ <p>Answer: <u>1.52</u></p>

7) Label the **dividend**, **divisor**, and **quotient** in the problem below.

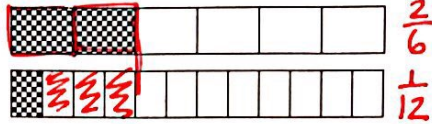
$$\begin{array}{r} \text{divisor} \rightarrow 12 \overline{) 312} \leftarrow \text{dividend} \\ \phantom{12} \overline{) 26} \leftarrow \text{quotient} \end{array}$$

8) Find the **sum** of 8.92 and 14?

$$\begin{array}{r} 8.92 \\ + 14.00 \\ \hline 22.92 \end{array}$$

9) Which division sentence is modeled below?

$$\frac{2}{6} \div \frac{1}{12} = 4$$



$$\frac{2}{6} \times \frac{12}{1} = \frac{4}{1} = 4$$

10) What is the **product** of  $1.5 \times 1.5$ ?

11) Find the **quotient** of  $\frac{5}{9} \div \frac{9}{10}$ ?

12) Write the **reciprocal** of  $\frac{9}{23}$ ?

13) Find the **quotient** of  $5.6 \div 0.14$ ?

14) A shelf  $6\frac{2}{3}$  inches wide. If CDs are  $\frac{1}{4}$  inches wide, how many CDs can be placed on the shelf?

15) What is a common error that students make when they divide decimals?

16) How are quotients, products, sums and differences related?

17) What is one skill you really need to practice? Which IXL skill will help you practice it?

18) Name two great resources for studying in preparation for your test?