

Name: Key

Period: \_\_\_\_\_

Score: \_\_\_\_\_

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**Unit 2 Review Sheet****Int 1****Rational Numbers****Unit 2**

For each of the following problems, tell what place value the 5 is located in.

1. 0.157

2. -43.598

3. 59.62

4. 6.905

5. 95.001

hundredths

tenths

tens

thousandths

ones

Simplify.

6. 
$$\begin{array}{r} 15.3 \\ +11.9 \\ \hline \end{array}$$

$$\boxed{27.2}$$

8.  $10.453 + (-12.5) =$

$$\boxed{-2.047}$$

10.  $-23.87 - 26.13 =$

$$\boxed{-50}$$

7.  $-20.9 + (-5.23) =$

$$\boxed{-26.13}$$

9.  $-0.74 - (-0.123) =$

$$\boxed{-0.617}$$

For each of the following rational numbers, tell whether they are TERMINATING or REPEATING decimals.

11. 0.66 terminating

14.  $4.\bar{5}$  repeating

12.  $\frac{1}{3}$  repeating

15. -2.567 terminating

13.  $\frac{8}{9}$  repeating

16.  $\frac{2}{5}$  terminating

Write each fraction as a decimal and each decimal as a fraction. Show your work.

17.  $-\frac{3}{20} = \boxed{-0.15}$

19.  $3\frac{5}{8} = \boxed{3.625}$

21. -9.36

$$\boxed{-9\frac{9}{25}}$$

18.  $\frac{7}{18} = \boxed{0.\overline{38}}$

20. 0.045

$$\boxed{\frac{9}{200}}$$

22. 4.4

$$\boxed{4\frac{2}{5}}$$

Fill in the blank with  $<$ ,  $>$ , or  $=$  to make the statement true. Show your work.

$$23. \frac{1}{2} < \frac{3}{5}$$

$$25. \frac{7}{20} > 0.34$$

$$27. -8.56 > -8.71$$

$$24. 0.5 > 0.4\bar{9}$$

$$26. \frac{9}{14} < \frac{21}{30}$$

Order each set of numbers from least to greatest. Show your work.

$$28. \left\{ 0, -\frac{4}{9}, \frac{1}{3}, \frac{4}{7}, -\frac{5}{7} \right\}$$

$$29. \left\{ 2\frac{1}{4}, 2\frac{4}{7}, 2.3, 2.23 \right\}$$

$$-\frac{5}{7}, -\frac{4}{9}, 0, \frac{1}{3}, \frac{4}{7}$$

$$2.23, 2\frac{1}{4}, 2.3, 2\frac{4}{7}$$

Simplify. Show all of your work.

$$30. \frac{6}{11} - \frac{10}{11} = \boxed{-\frac{5}{11}}$$

$$33. \left(-\frac{6}{7}\right) + \left(-\frac{2}{3}\right) = \boxed{-\frac{11}{21} = -\frac{32}{21}}$$

$$31. \frac{2}{5} + \left(-\frac{3}{5}\right) = \boxed{-\frac{1}{5}}$$

$$34. 2\frac{1}{8} + 3\frac{7}{12} = \boxed{5\frac{17}{24} = \frac{137}{24}}$$

$$32. 3\frac{3}{5} + \left(-2\frac{1}{2}\right) =$$

$$35. 4\frac{2}{9} - \left(-3\frac{2}{3}\right) = \boxed{7\frac{8}{9} = \frac{71}{9}}$$

Simplify. Show all of your work.

$$36. \frac{5}{9} - \frac{4}{5} = \boxed{\frac{-11}{45}}$$

$$43. \frac{5}{9} \div \frac{4}{5} = \boxed{\frac{25}{36}}$$

$$37. \frac{1}{4} - \frac{5}{8} = \boxed{\frac{-3}{8}}$$

$$44. \frac{4}{5} \cdot 30 = \boxed{24}$$

$$38. 3\frac{3}{5} \cdot \left(-2\frac{1}{2}\right) = \boxed{-9}$$

$$45. \frac{1}{5} \div 4 = \boxed{\frac{1}{20}}$$

$$39. \left(-\frac{6}{7}\right)\left(-\frac{2}{3}\right) = \boxed{\frac{4}{7}}$$

$$46. \frac{2}{3} \div \frac{4}{4} = \boxed{\frac{1}{6}}$$

$$40. 3\frac{1}{8} \cdot 3\frac{7}{15} = \boxed{10\frac{5}{6} = \frac{65}{6}}$$

$$47. \frac{4}{\frac{1}{2}} = \boxed{8}$$

$$41. \frac{2}{9} \div \left(-\frac{2}{3}\right) = \boxed{-\frac{1}{3}}$$

$$48. \frac{-2\frac{3}{5}}{1\frac{1}{4}} = \boxed{-2\frac{2}{25} = -\frac{52}{25}}$$

$$42. 4\frac{1}{4} \div 8\frac{3}{8} = \boxed{\frac{34}{67}}$$