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

Simplify.

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

8. $10.453 + (-12.5) =$

10. $-23.87 - 26.13 =$

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

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

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

11. 0.66 _____

14. $4.\overline{5}$ _____

12. $\dfrac{1}{3}$ _____

15. -2.567 _____

13. $\dfrac{8}{9}$ _____

16. $\dfrac{2}{5}$ _____

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

17. $-\dfrac{3}{20}$

19. $3\dfrac{5}{8}$

21. -9.36

18. $\dfrac{7}{18}$

20. 0.045

22. 4.4

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

23. $\dfrac{1}{2}$ _____ $\dfrac{3}{5}$

25. $\dfrac{7}{20}$ _____ 0.34

27. -8.56 _____ -8.71

24. 0.5 _____ $0.4\overline{9}$

26. $\dfrac{9}{14}$ _____ $\dfrac{21}{30}$

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

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

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

_____, _____, _____, _____, _____

_____, _____, _____, _____

Simplify. Show all of your work.

30. $\dfrac{6}{11} - \dfrac{10}{11} =$

33. $\left(-\dfrac{6}{7}\right) + \left(-\dfrac{2}{3}\right) =$

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

34. $2\dfrac{1}{8} + 3\dfrac{7}{12} =$

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

35. $4\dfrac{2}{9} - \left(-3\dfrac{2}{3}\right) =$

Simplify. Show all of your work.

36. $\dfrac{5}{9} - \dfrac{4}{5} =$

37. $\dfrac{1}{4} - \dfrac{5}{8} =$

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

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

40. $3\dfrac{1}{8} \cdot 3\dfrac{7}{15} =$

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

42. $4\dfrac{1}{4} \div 8\dfrac{3}{8} =$

43. $\dfrac{5}{9} \div \dfrac{4}{5} =$

44. $\dfrac{4}{5} \cdot 30 =$

45. $\dfrac{1}{5} \div 4 =$

46. $\dfrac{\dfrac{2}{3}}{4} =$

47. $\dfrac{4}{\dfrac{1}{2}} =$

48. $\dfrac{-2\dfrac{3}{5}}{1\dfrac{1}{4}} =$