

## Review: Number Operations

Score \_\_\_\_\_ Per \_\_\_\_\_

1. Give an example of a rational number. \_\_\_\_\_ Explain why it is rational. \_\_\_\_\_  
\_\_\_\_\_2. Give an example of an irrational number. \_\_\_\_\_ Explain why it is irrational. \_\_\_\_\_  
\_\_\_\_\_**Circle the number sets that include the following numbers.**3.  $-17$                       **Natural**   **Whole**   **Integer**   **Rational**   **Irrational**   **Real**4.  $0.8472399012\dots$                       **Natural**   **Whole**   **Integer**   **Rational**   **Irrational**   **Real****Convert the following fractions to decimals.**

5.  $\frac{3}{5}$                       \_\_\_\_\_

6.  $-2\frac{2}{3}$                       \_\_\_\_\_

7.  $-\frac{7}{20}$                       \_\_\_\_\_

8.  $\frac{28}{99}$                       \_\_\_\_\_

**Convert the following decimals to fractions. Simplify if possible.**

9.  $0.61$                       \_\_\_\_\_

10.  $7.\bar{8}$                       \_\_\_\_\_

11.  $0.\overline{42}$                       \_\_\_\_\_

12.  $-8.036$                       \_\_\_\_\_

**Compute the following.**

13.  $-14 + 3 =$  \_\_\_\_\_

14.  $-3.7 + (-9.2) =$  \_\_\_\_\_

15.  $10 - (-5) =$  \_\_\_\_\_

16.  $-4.7 + 13.4 =$  \_\_\_\_\_

17.  $-7 \times -8 =$  \_\_\_\_\_

18.  $10.8 \div -7.2 =$  \_\_\_\_\_

19.  $-1.4 \times -1.2 =$  \_\_\_\_\_

20.  $-96 \div 12 =$  \_\_\_\_\_

Compute the following. Simplify if possible.

21.  $\frac{1}{5} + \frac{3}{5} =$  \_\_\_\_\_

22.  $-\frac{2}{9} + \frac{2}{3} =$  \_\_\_\_\_

23.  $3\frac{1}{3} - 2\frac{3}{4} =$  \_\_\_\_\_

24.  $-3 + \frac{3}{8} =$  \_\_\_\_\_

25.  $\frac{1}{3} \times \frac{5}{6} =$  \_\_\_\_\_

26.  $-\frac{3}{7} \times \frac{14}{15} =$  \_\_\_\_\_

27.  $\frac{-3}{5} \div \frac{-7}{10} =$  \_\_\_\_\_

28.  $1\frac{5}{6} \div -\frac{1}{4} =$  \_\_\_\_\_

29. Give an example of 2 integers whose quotient is  $-3$ : \_\_\_\_\_ and \_\_\_\_\_

30. If  $n$  is a negative integer, is  $n - n = 0$ ? Justify your answer.