

Name: \_\_\_\_\_

### Grade 7: Pre-Algebra A Summer Assignment

Show all work and answers on loose-leaf paper.

NO CALCULATOR – Teachers will expect you to know how to compute with all numbers without the use of a calculator.

#### Section 1

For Exercises 1-16, find the sum or difference.

1.  $\frac{2}{5} + \frac{7}{9}$

2.  $\frac{3}{4} + \frac{5}{6}$

3.  $\frac{3}{4} - \frac{1}{5}$

4.  $\frac{8}{9} + \frac{7}{15}$

5.  $9\frac{8}{10} + 8\frac{2}{10}$

6.  $15\frac{2}{5} - 5\frac{4}{7}$

7.  $71\frac{1}{5} - 5\frac{2}{3}$

8.  $99\frac{9}{19} + \frac{1}{5}$

9.  $\frac{2}{3} + \frac{2}{3}$

10.  $\frac{7}{10} - \frac{3}{10}$

11.  $\frac{7}{12} - \frac{1}{4}$

12.  $\frac{1}{6} + \frac{3}{4}$

13.  $4\frac{3}{8} + 2\frac{5}{8}$

14.  $5\frac{2}{5} - 1\frac{4}{5}$

15.  $11 - 3\frac{1}{8}$

16.  $7\frac{2}{5} + 3\frac{1}{4}$

For Exercises 17-24, find the product or quotient.

17.  $\frac{3}{8} \cdot \frac{2}{5}$

18.  $\frac{1}{4}$  of  $\frac{4}{5}$

19.  $\frac{5}{6}$  of 30

20.  $2\frac{7}{8} \cdot \frac{4}{5}$

21.  $\frac{3}{5} \div \frac{1}{5}$

22.  $9 \div \frac{3}{4}$

23.  $\frac{5}{6} \div \frac{3}{8}$

24.  $3\frac{2}{3} \div 2\frac{1}{2}$

For Exercises 25-29, compare each pair of fractions. Use  $<$ ,  $=$ , or  $>$ .

25.  $\frac{1}{4} \square \frac{2}{9}$

26.  $\frac{3}{7} \square \frac{1}{2}$

27.  $\frac{2}{5} \square \frac{4}{10}$

28.  $\frac{5}{6} \square \frac{7}{8}$

29.  $\frac{3}{5} \square \frac{2}{3}$

For Exercises 30-35, write each fraction as a decimal.

30.  $\frac{4}{5}$

31.  $\frac{1}{9}$

32.  $\frac{7}{8}$

33.  $\frac{13}{4}$

34.  $\frac{28}{8}$

35.  $\frac{100}{6}$

## Section 2

For this section, show answers here.

Simplify each expression.

1.  $8 + (-4) =$  \_\_\_\_\_

2.  $8 + 4 =$  \_\_\_\_\_

3.  $-3 + (-3) =$  \_\_\_\_\_

4.  $6 + (-2) =$  \_\_\_\_\_

5.  $-7 + 11 =$  \_\_\_\_\_

6.  $-4 + 16 =$  \_\_\_\_\_

7.  $-9 + (-10) =$  \_\_\_\_\_

8.  $23 + (-3) =$  \_\_\_\_\_

9.  $9 - (-3) =$  \_\_\_\_\_

10.  $18 - 14 =$  \_\_\_\_\_

11.  $-3 - (-3) =$  \_\_\_\_\_

12.  $-4 - 16 =$  \_\_\_\_\_

13.  $-3 - 12 =$  \_\_\_\_\_

14.  $6 - (-2) =$  \_\_\_\_\_

15.  $-9 - (-10) =$  \_\_\_\_\_

16.  $2 - (-3) =$  \_\_\_\_\_

17.  $12 - 32 =$  \_\_\_\_\_

18.  $42 - (-15) =$  \_\_\_\_\_

19.  $14 \cdot (-3)$

20.  $-16 \cdot (-3)$

21.  $\frac{30}{5}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

22.  $\frac{-72}{-8}$

23.  $-2 \div (-2)$

24.  $6 \div (-1)$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

25.  $48 \div (-12)$

26.  $-99 \div (-9)$

27.  $-21 \div 3$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

28.  $-33 \div 3$

29.  $100 \div (-5)$

30.  $75 \div (-3)$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_