

Name \_\_\_\_\_ Period \_\_\_\_\_

Algebra 2 Honors Fractions

1. Find the LCM of 72 and 96, showing work.
2. Find the LCM of 48 and 36, showing work.
3. Find the LCM of 35 and 49, showing work.

**Simplify.**

3.  $5(x - 8)$
4.  $-(6 - y)$
5.  $4(2x - 3)$
6.  $-3a(6a - 5)$

7.  $\frac{5x-2}{9}$

8.  $\frac{7x+5}{14}$

9.  $\frac{9x-7}{-4}$

10.  $\frac{4}{45} + \frac{7}{30}$

11.  $\frac{17}{22} + \frac{9}{16}$

12.  $\frac{11}{54} + \frac{7}{30}$

13.  $\frac{5}{12} + \frac{6}{21} + \frac{7}{16}$

14.  $\frac{8}{15} + \frac{4}{21} + \frac{9}{35}$

15.  $\frac{5}{8} + \frac{6}{20} + \frac{7}{10}$

16.  $5\frac{7}{36} + 7\frac{11}{48}$

17.  $3\frac{11}{24} + 8\frac{37}{42}$

18.  $4\frac{5}{26} + 7\frac{3}{4}$

19.  $8 - \frac{6}{11}$

20.  $15 - \frac{4}{16}$

21.  $22 - \frac{17}{21}$

22.  $9\frac{5}{12} - 5\frac{13}{16}$

23.  $14\frac{7}{32} - 3\frac{5}{6}$

24.  $12\frac{5}{24} - 8\frac{15}{16}$

25.  $\frac{7}{24} \cdot \frac{16}{35}$

26.  $\frac{18}{25} \cdot \frac{15}{27}$

27.  $\frac{72}{77} \cdot \frac{49}{36}$

28.  $3\frac{5}{9} \cdot 2\frac{5}{8}$

29.  $4\frac{5}{7} \cdot 2\frac{6}{11}$

30.  $5\frac{4}{13} \cdot 4\frac{12}{23}$

31.  $\frac{8}{15} \div \frac{28}{45}$

32.  $\frac{12}{77} \div \frac{16}{33}$

33.  $\frac{21}{52} \div \frac{7}{26}$

34.  $4\frac{7}{10} \div 2\frac{1}{5}$

35.  $8\frac{4}{7} \div 5\frac{5}{14}$

36.  $4\frac{1}{20} \div 5\frac{6}{15}$