

Problem set – fractions - 1

Name: _____ Date: _____

Solve each problem. Show all of your work. You may use a calculator, textbook, and notes.

For problems 1 through 10, put the correct sign, = or \neq , between each pair of fractions.

1. $\frac{2}{6}$ $\frac{1}{3}$

6. $\frac{1}{5}$ $\frac{20}{100}$

2. $\frac{2}{7}$ $\frac{6}{21}$

7. $\frac{2}{3}$ $\frac{-20}{-30}$

3. $\frac{12}{6}$ $\frac{1}{2}$

8. $\frac{5}{8}$ $\frac{40}{64}$

4. $\frac{12}{10}$ $\frac{6}{5}$

9. $\frac{-1}{8}$ $\frac{1}{-8}$

5. $\frac{1}{2}$ $\frac{15}{30}$

10. $-\frac{2}{10}$ $\frac{-1}{5}$

For problems 11 through 20, write each fraction in lowest terms.

11. $\frac{2}{4}$

16. $\frac{3}{7}$

12. $\frac{2}{6}$

17. $\frac{3}{21}$

13. $\frac{3}{12}$

18. $\frac{2}{15}$

14. $\frac{4}{24}$

19. $\frac{6}{16}$

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

20. $\frac{12}{64}$

For problems 21 through 30, write the mixed numbers as improper fractions in lowest terms.

21. $1\frac{1}{2}$

26. $-6\frac{7}{8}$

22. $2\frac{1}{2}$

27. $12\frac{3}{8}$

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

28. $2\frac{2}{9}$

24. $2\frac{3}{5}$

29. $7\frac{1}{3}$

25. $1\frac{1}{3}$

30. $3\frac{3}{16}$

For problems 31 through 40, write the improper fractions as mixed numbers in lowest terms.

31. $\frac{10}{6}$

36. $\frac{14}{12}$

32. $-\frac{15}{4}$

37. $\frac{15}{12}$

33. $\frac{12}{3}$

38. $\frac{26}{11}$

34. $\frac{21}{9}$

39. $\frac{4}{2}$

35. $\frac{38}{-10}$

40. $-\frac{15}{5}$