

LESSON 23

Improper Fraction To A Mixed Number

An improper fraction is a fraction that has a numerator greater than the denominator.

This type of fraction can be changed to a mixed number by dividing the numerator by the denominator.

Example 1:
$$\frac{5}{3} = 1 \frac{2}{3}$$

Since:
$$3 \overline{)5} = 1 \frac{2}{3}$$

Example 2:
$$7 \frac{5}{5} = 7 + 1 = 8$$

Example 3:
$$2 \frac{9}{7} = 2 + 1 \frac{2}{7} = 3 \frac{2}{7}$$

Find A Reduced Mixed Number Or Whole Number

1. $\frac{7}{4} = 1 \frac{3}{4}$	11. $\frac{20}{7} = 2 \frac{6}{7}$	21. $\frac{32}{6} = 5 \frac{2}{6} = 5 \frac{1}{3}$
2. $\frac{9}{2} = 4 \frac{1}{2}$	12. $\frac{15}{14} = 1 \frac{1}{14}$	22. $\frac{25}{10} = 2 \frac{5}{10} = 2 \frac{1}{2}$
3. $\frac{5}{3} = 1 \frac{2}{3}$	13. $\frac{16}{7} = 2 \frac{2}{7}$	23. $\frac{34}{8} = 4 \frac{2}{8} = 4 \frac{1}{4}$
4. $\frac{12}{5} = 2 \frac{2}{5}$	14. $\frac{18}{5} = 3 \frac{3}{5}$	24. $\frac{44}{6} = 7 \frac{2}{6} = 7 \frac{1}{3}$
5. $\frac{8}{3} = 2 \frac{2}{3}$	15. $\frac{30}{7} = 4 \frac{2}{7}$	25. $\frac{50}{12} = 4 \frac{2}{12} = 4 \frac{1}{6}$
6. $\frac{11}{2} = 5 \frac{1}{2}$	16. $\frac{50}{49} = 1 \frac{1}{49}$	26. $\frac{20}{18} = 1 \frac{2}{18} = 1 \frac{1}{9}$
7. $\frac{16}{3} = 5 \frac{1}{3}$	17. $\frac{34}{5} = 6 \frac{4}{5}$	27. $\frac{38}{12} = 3 \frac{2}{12} = 3 \frac{1}{6}$
8. $\frac{13}{7} = 1 \frac{6}{7}$	18. $\frac{83}{9} = 9 \frac{2}{9}$	28. $\frac{45}{40} = 1 \frac{5}{40} = 1 \frac{1}{8}$
9. $\frac{16}{5} = 3 \frac{1}{5}$	19. $\frac{78}{5} = 15 \frac{3}{5}$	29. $\frac{36}{20} = 1 \frac{16}{20} = 1 \frac{4}{5}$
10. $\frac{21}{4} = 5 \frac{1}{4}$	20. $\frac{48}{41} = 1 \frac{7}{41}$	30. $\frac{41}{5} = 8 \frac{1}{5}$

Find A Reduced Mixed Number Or Whole Number

31. $\frac{81}{9} = 9$	41. $\frac{48}{16} = 3$	51. $8\frac{5}{5} = 8 + 1 = 9$
32. $\frac{56}{7} = 8$	42. $\frac{34}{17} = 2$	52. $3\frac{7}{7} = 3 + 1 = 4$
33. $\frac{63}{9} = 7$	43. $\frac{72}{12} = 6$	53. $6\frac{11}{11} = 6 + 1 = 7$
34. $\frac{28}{4} = 7$	44. $\frac{60}{5} = 12$	54. $8\frac{6}{6} = 8 + 1 = 9$
35. $\frac{39}{13} = 3$	45. $\frac{72}{18} = 4$	55. $12\frac{14}{14} = 12 + 1 = 13$
36. $\frac{91}{7} = 13$	46. $\frac{45}{3} = 15$	56. $1\frac{10}{10} = 1 + 1 = 2$
37. $\frac{57}{19} = 3$	47. $\frac{36}{4} = 9$	57. $11\frac{6}{6} = 11 + 1 = 12$
38. $\frac{75}{15} = 5$	48. $\frac{75}{3} = 25$	58. $21\frac{8}{8} = 21 + 1 = 22$
39. $\frac{100}{5} = 20$	49. $\frac{64}{16} = 4$	59. $13\frac{4}{4} = 13 + 1 = 14$
40. $\frac{20}{20} = 1$	50. $\frac{51}{17} = 3$	60. $22\frac{3}{3} = 22 + 1 = 23$

Find A Reduced Mixed Number Or Whole Number

61. $6\frac{3}{2} = 6 + 1\frac{1}{2} = 7\frac{1}{2}$	71. $3\frac{12}{8} = 3 + 1\frac{4}{8} = 4\frac{1}{2}$	81. $16\frac{15}{12} = 16 + 1\frac{3}{12} = 17\frac{1}{4}$
62. $8\frac{5}{2} = 8 + 2\frac{1}{2} = 10\frac{1}{2}$	72. $5\frac{14}{10} = 5 + 1\frac{4}{10} = 6\frac{2}{5}$	82. $5\frac{30}{18} = 5 + 1\frac{12}{18} = 6\frac{2}{3}$
63. $3\frac{5}{4} = 3 + 1\frac{1}{4} = 4\frac{1}{4}$	73. $6\frac{8}{6} = 6 + 1\frac{2}{6} = 7\frac{1}{3}$	83. $2\frac{30}{4} = 2 + 7\frac{2}{4} = 9\frac{1}{2}$
64. $6\frac{7}{5} = 6 + 1\frac{2}{5} = 7\frac{2}{5}$	74. $12\frac{14}{4} = 12 + 3\frac{2}{4} = 15\frac{1}{2}$	84. $7\frac{18}{12} = 6 + 1\frac{1}{2} = 7\frac{1}{2}$
65. $9\frac{6}{5} = 9 + 1\frac{1}{5} = 10\frac{1}{5}$	75. $2\frac{25}{10} = 2 + 2\frac{5}{10} = 4\frac{1}{2}$	85. $2\frac{25}{5} = 2 + 5 = 7$
66. $8\frac{10}{9} = 8 + 1\frac{1}{9} = 9\frac{1}{9}$	76. $3\frac{20}{15} = 3 + 1\frac{5}{15} = 4\frac{1}{3}$	86. $6\frac{100}{15} = 6 + 6\frac{10}{15} = 12\frac{2}{3}$
67. $3\frac{4}{3} = 3 + 1\frac{1}{3} = 4\frac{1}{3}$	77. $2\frac{40}{25} = 2 + 1\frac{15}{40} = 3\frac{3}{8}$	87. $3\frac{84}{9} = 3 + 9\frac{3}{9} = 12\frac{1}{3}$
68. $2\frac{13}{4} = 2 + 3\frac{1}{4} = 5\frac{1}{4}$	78. $9\frac{30}{12} = 9 + 2\frac{6}{12} = 11\frac{1}{2}$	88. $2\frac{55}{10} = 2 + 5\frac{5}{10} = 7\frac{1}{2}$
69. $1\frac{20}{7} = 1 + 2\frac{6}{7} = 3\frac{6}{7}$	79. $6\frac{40}{15} = 6 + 2\frac{10}{15} = 8\frac{2}{3}$	89. $5\frac{35}{14} = 5 + 2\frac{7}{14} = 7\frac{1}{2}$
70. $2\frac{11}{6} = 2 + 1\frac{5}{6} = 3\frac{5}{6}$	80. $3\frac{75}{50} = 3 + 1\frac{25}{50} = 4\frac{1}{2}$	90. $16\frac{50}{16} = 16 + 3\frac{2}{16} = 19\frac{1}{8}$