

LESSON 5

Reducing Fractions By Inspection

Any fraction can be reduced when the greatest common factor (gcf) of the numerator and the denominator is greater than 1.

Method 1: Think of the greatest common factor of the two numbers and divide.

Example A: Reduce $\frac{8}{12}$

What is the greatest common factor of 8 and 12. The number 4 divides into both

Divide

$$4 \overline{) 8}$$

$$4 \overline{) 12}$$

Therefore

$$\frac{8}{12} = \frac{2}{3}$$

Example B: Reduce $\frac{30}{35}$

5 divides into both numbers

$$\frac{30}{35} = \frac{6}{7}$$

Reducing Each Fraction Using The Greatest Common Factor

gcf is 2

gcf is 3

gcf is 4

1. $\frac{6}{10} = \underline{\hspace{2cm}}$	11. $\frac{3}{24} = \underline{\hspace{2cm}}$	21. $\frac{12}{20} = \underline{\hspace{2cm}}$
2. $\frac{8}{18} = \underline{\hspace{2cm}}$	12. $\frac{15}{18} = \underline{\hspace{2cm}}$	22. $\frac{28}{32} = \underline{\hspace{2cm}}$
3. $\frac{10}{26} = \underline{\hspace{2cm}}$	13. $\frac{33}{42} = \underline{\hspace{2cm}}$	23. $\frac{20}{28} = \underline{\hspace{2cm}}$
4. $\frac{12}{14} = \underline{\hspace{2cm}}$	14. $\frac{6}{27} = \underline{\hspace{2cm}}$	24. $\frac{16}{36} = \underline{\hspace{2cm}}$
5. $\frac{30}{32} = \underline{\hspace{2cm}}$	15. $\frac{39}{42} = \underline{\hspace{2cm}}$	25. $\frac{60}{64} = \underline{\hspace{2cm}}$
6. $\frac{14}{20} = \underline{\hspace{2cm}}$	16. $\frac{24}{39} = \underline{\hspace{2cm}}$	26. $\frac{36}{44} = \underline{\hspace{2cm}}$
7. $\frac{18}{22} = \underline{\hspace{2cm}}$	17. $\frac{27}{30} = \underline{\hspace{2cm}}$	27. $\frac{12}{40} = \underline{\hspace{2cm}}$
8. $\frac{16}{18} = \underline{\hspace{2cm}}$	18. $\frac{15}{21} = \underline{\hspace{2cm}}$	28. $\frac{48}{68} = \underline{\hspace{2cm}}$
9. $\frac{24}{26} = \underline{\hspace{2cm}}$	19. $\frac{36}{51} = \underline{\hspace{2cm}}$	29. $\frac{28}{44} = \underline{\hspace{2cm}}$
10. $\frac{22}{30} = \underline{\hspace{2cm}}$	20. $\frac{9}{24} = \underline{\hspace{2cm}}$	30. $\frac{32}{52} = \underline{\hspace{2cm}}$

Reducing Each Fraction Using The Greatest Common Factor

gcf is 5

gcf is 6

gcf is 7

31. $\frac{10}{15} = \underline{\hspace{2cm}}$	41. $\frac{12}{30} = \underline{\hspace{2cm}}$	51. $\frac{21}{70} = \underline{\hspace{2cm}}$
32. $\frac{35}{40} = \underline{\hspace{2cm}}$	42. $\frac{18}{24} = \underline{\hspace{2cm}}$	52. $\frac{7}{56} = \underline{\hspace{2cm}}$
33. $\frac{15}{20} = \underline{\hspace{2cm}}$	43. $\frac{30}{36} = \underline{\hspace{2cm}}$	53. $\frac{21}{35} = \underline{\hspace{2cm}}$
34. $\frac{20}{45} = \underline{\hspace{2cm}}$	44. $\frac{18}{48} = \underline{\hspace{2cm}}$	54. $\frac{14}{49} = \underline{\hspace{2cm}}$
35. $\frac{25}{30} = \underline{\hspace{2cm}}$	45. $\frac{12}{42} = \underline{\hspace{2cm}}$	55. $\frac{35}{56} = \underline{\hspace{2cm}}$
36. $\frac{15}{55} = \underline{\hspace{2cm}}$	46. $\frac{24}{54} = \underline{\hspace{2cm}}$	56. $\frac{28}{49} = \underline{\hspace{2cm}}$
37. $\frac{10}{35} = \underline{\hspace{2cm}}$	47. $\frac{12}{18} = \underline{\hspace{2cm}}$	57. $\frac{35}{42} = \underline{\hspace{2cm}}$
38. $\frac{5}{30} = \underline{\hspace{2cm}}$	48. $\frac{36}{42} = \underline{\hspace{2cm}}$	58. $\frac{28}{63} = \underline{\hspace{2cm}}$
39. $\frac{25}{40} = \underline{\hspace{2cm}}$	49. $\frac{72}{78} = \underline{\hspace{2cm}}$	59. $\frac{84}{91} = \underline{\hspace{2cm}}$
40. $\frac{35}{60} = \underline{\hspace{2cm}}$	50. $\frac{30}{72} = \underline{\hspace{2cm}}$	60. $\frac{21}{98} = \underline{\hspace{2cm}}$

Reducing Each Fraction Using The Greatest Common Factor

gcf is 8

gcf is 9

gcf is 10

61. $\frac{16}{24} = \underline{\hspace{2cm}}$

71. $\frac{9}{18} = \underline{\hspace{2cm}}$

81. $\frac{20}{30} = \underline{\hspace{2cm}}$

62. $\frac{32}{40} = \underline{\hspace{2cm}}$

72. $\frac{27}{63} = \underline{\hspace{2cm}}$

82. $\frac{40}{50} = \underline{\hspace{2cm}}$

63. $\frac{16}{56} = \underline{\hspace{2cm}}$

73. $\frac{18}{45} = \underline{\hspace{2cm}}$

83. $\frac{20}{70} = \underline{\hspace{2cm}}$

64. $\frac{24}{64} = \underline{\hspace{2cm}}$

74. $\frac{27}{36} = \underline{\hspace{2cm}}$

84. $\frac{50}{60} = \underline{\hspace{2cm}}$

65. $\frac{8}{24} = \underline{\hspace{2cm}}$

75. $\frac{54}{63} = \underline{\hspace{2cm}}$

85. $\frac{40}{90} = \underline{\hspace{2cm}}$

66. $\frac{32}{72} = \underline{\hspace{2cm}}$

76. $\frac{36}{81} = \underline{\hspace{2cm}}$

86. $\frac{50}{80} = \underline{\hspace{2cm}}$

67. $\frac{24}{40} = \underline{\hspace{2cm}}$

77. $\frac{27}{72} = \underline{\hspace{2cm}}$

87. $\frac{70}{90} = \underline{\hspace{2cm}}$

68. $\frac{56}{72} = \underline{\hspace{2cm}}$

78. $\frac{45}{81} = \underline{\hspace{2cm}}$

88. $\frac{30}{50} = \underline{\hspace{2cm}}$

69. $\frac{16}{88} = \underline{\hspace{2cm}}$

79. $\frac{63}{90} = \underline{\hspace{2cm}}$

89. $\frac{70}{80} = \underline{\hspace{2cm}}$

70. $\frac{56}{96} = \underline{\hspace{2cm}}$

80. $\frac{72}{99} = \underline{\hspace{2cm}}$

90. $\frac{30}{40} = \underline{\hspace{2cm}}$