

LESSON 11
Multiplication Of Fractions
(Repeated Cancelling)

Fractions can be multiplied together to get a reduced answer by repeated cancelling of common factors in the numerators and denominators.

Example 1: Multiply $\frac{40}{96} \times \frac{72}{100}$

10 Divides into 40 and 100 leaving 4 and 10 ... $\frac{4}{96} \times \frac{72}{10}$

2 Divides into 4 and 10 leaving 2 and 5 $\frac{2}{96} \times \frac{72}{5}$

8 Divides into 72 and 96 leaving 9 and 12 $\frac{2}{12} \times \frac{9}{5}$

3 Divides into 9 and 12 leaving 3 and 4 $\frac{2}{4} \times \frac{3}{5}$

2 Divides into 2 and 4 leaving 1 and 2 $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$

Find A Reduced Answer By Repeated Cancelling

1. $\frac{60}{98} \times \frac{49}{72} = \frac{5}{12}$	11. $\frac{75}{81} \times \frac{27}{100} = \frac{1}{4}$	21. $\frac{32}{55} \times \frac{25}{56} = \frac{20}{77}$
2. $\frac{27}{32} \times \frac{24}{63} = \frac{9}{28}$	12. $\frac{24}{29} \times \frac{29}{60} = \frac{2}{5}$	22. $\frac{25}{96} \times \frac{64}{65} = \frac{10}{39}$
3. $\frac{15}{96} \times \frac{64}{75} = \frac{2}{15}$	13. $\frac{3}{14} \times \frac{56}{81} = \frac{4}{27}$	23. $\frac{54}{70} \times \frac{80}{81} = \frac{16}{21}$
4. $\frac{21}{80} \times \frac{48}{49} = \frac{9}{35}$	14. $\frac{21}{50} \times \frac{30}{49} = \frac{9}{35}$	24. $\frac{11}{72} \times \frac{60}{77} = \frac{5}{42}$
5. $\frac{25}{48} \times \frac{72}{75} = \frac{1}{2}$	15. $\frac{45}{54} \times \frac{27}{30} = \frac{3}{4}$	25. $\frac{35}{54} \times \frac{36}{55} = \frac{14}{33}$
6. $\frac{50}{96} \times \frac{72}{90} = \frac{5}{12}$	16. $\frac{60}{70} \times \frac{80}{100} = \frac{24}{35}$	26. $\frac{35}{81} \times \frac{27}{56} = \frac{5}{24}$
7. $\frac{35}{64} \times \frac{16}{45} = \frac{7}{36}$	17. $\frac{25}{80} \times \frac{88}{100} = \frac{11}{40}$	27. $\frac{64}{75} \times \frac{25}{96} = \frac{2}{9}$
8. $\frac{25}{54} \times \frac{81}{100} = \frac{3}{8}$	18. $\frac{35}{36} \times \frac{24}{49} = \frac{10}{21}$	28. $\frac{49}{54} \times \frac{63}{84} = \frac{49}{72}$
9. $\frac{49}{90} \times \frac{60}{98} = \frac{1}{3}$	19. $\frac{16}{25} \times \frac{35}{40} = \frac{14}{25}$	29. $\frac{48}{49} \times \frac{35}{72} = \frac{10}{21}$
10. $\frac{37}{54} \times \frac{36}{37} = \frac{2}{3}$	20. $\frac{48}{64} \times \frac{0}{24} = 0$	30. $\frac{81}{98} \times \frac{21}{90} = \frac{27}{140}$