

Lösung zur Übung zur Multiplikation von Brüchen

$\frac{2}{3} \cdot \frac{5}{7}$	$\frac{10}{21}$
$\frac{12}{11} \cdot \frac{5}{42}$	$\frac{12}{11} \cdot \frac{5}{42} = \frac{2}{11} \cdot \frac{5}{7} = \frac{10}{77}$
$\frac{8}{15} \cdot \frac{20}{32}$	$\frac{8}{15} \cdot \frac{20}{32} = \frac{1}{15} \cdot \frac{20}{4} = \frac{1}{3} \cdot \frac{4}{4} = \frac{1}{3}$
$\frac{15}{14} \cdot \frac{28}{25}$	$\frac{15}{14} \cdot \frac{28}{25} = \frac{3}{14} \cdot \frac{28}{5} = \frac{3}{1} \cdot \frac{2}{5} = \frac{6}{5}$
$\frac{16}{27} \cdot \frac{15}{72}$	$\frac{16}{27} \cdot \frac{15}{72} = \frac{2}{27} \cdot \frac{15}{9} = \frac{2}{9} \cdot \frac{5}{9} = \frac{10}{81}$
$2 \cdot \frac{13}{70}$	$2 \cdot \frac{13}{70} = \frac{2}{1} \cdot \frac{13}{70} = \frac{1}{1} \cdot \frac{13}{35} = \frac{13}{35}$
$\frac{15}{27} \cdot 3$	$= \frac{15}{27} \cdot \frac{3}{1} = \frac{15}{9} \cdot \frac{1}{1} = \frac{5}{9} \cdot \frac{1}{1} = \frac{5}{3}$
$\frac{24}{81} \cdot \frac{15}{6} \cdot \frac{9}{8}$	$\frac{24}{81} \cdot \frac{15}{6} \cdot \frac{9}{8} = \frac{4}{9} \cdot \frac{15}{1} \cdot \frac{1}{8} = \frac{1}{3} \cdot \frac{5}{1} \cdot \frac{1}{2} = \frac{5}{6}$
$\frac{36}{125} \cdot \left(-\frac{15}{7}\right)$	$\frac{36}{125} \cdot \left(-\frac{15}{7}\right) = -\frac{36}{25} \cdot \frac{3}{7} = -\frac{108}{175}$
$\left(-\frac{39}{20}\right) \cdot \left(-\frac{25}{65}\right)$	$= \frac{39}{20} \cdot \frac{25}{65} = \frac{3}{20} \cdot \frac{25}{5} = \frac{3}{4} \cdot \frac{5}{5} = \frac{3}{4}$
$\left(-\frac{32}{24}\right) \cdot \frac{5}{6}$	$= -\frac{32}{24} \cdot \frac{5}{6} = -\frac{4}{3} \cdot \frac{5}{6} = -\frac{2}{3} \cdot \frac{5}{3} = -\frac{10}{9}$
$\frac{33}{14} \cdot \left(-\frac{35}{44}\right)$	$\frac{33}{14} \cdot \left(-\frac{35}{44}\right) = -\frac{3}{14} \cdot \frac{35}{4} = -\frac{3}{2} \cdot \frac{5}{4} = -\frac{15}{8}$
$\left(-\frac{14}{18}\right) \cdot \left(-\frac{27}{21}\right)$	$= \frac{14}{18} \cdot \frac{27}{21} = \frac{2}{18} \cdot \frac{27}{3} = \frac{2}{2} \cdot \frac{3}{3} = 1$
$\frac{5}{12} \cdot (-4)$	$= -\frac{5}{12} \cdot \frac{4}{1} = -\frac{5}{3} \cdot \frac{1}{1} = -\frac{5}{3}$
$-7 \cdot \left(-\frac{15}{7}\right)$	$= 7 \cdot \frac{15}{7} = \frac{7}{1} \cdot \frac{15}{7} = 15$
$\left(-\frac{9}{20}\right) \cdot \left(-\frac{15}{2}\right) \cdot \frac{3}{18}$	$= \frac{9}{20} \cdot \frac{15}{2} \cdot \frac{3}{18} = \frac{1}{20} \cdot \frac{15}{2} \cdot \frac{3}{2} = \frac{1}{4} \cdot \frac{3}{2} \cdot \frac{3}{2} = \frac{9}{16}$