

Abgabe: Nach den Ferien

Name:

1	<p>Bitte rechnen Sie aus:</p> <p>a) $(12uv + gu)(-3uv - 10gv + 7gu)$ b) $(-11gu + uv)(-gv - gu)$ c) $(5uv - 4gu + 3)(-7uv - 1)(-gv + 10)$ d) $(5gv + 12uv - 9)(10uv + 7gv + 6gu)(11gu - 10)$</p>
2	<p>Bitte rechnen Sie aus:</p> <p>a) $\frac{12m-11z}{-11x-12d+8} - \frac{5a+4i}{i+4e}$ b) $\frac{-7g+12}{5a+4g} - \frac{-12t-z-2}{3o+2y+9g}$ c) $\frac{9,4r+1,6s}{7,5p+3,9} - \frac{2,6j-5,8k}{-6,8k-9}$ d) $\frac{9,9e+4,5}{-10,4r-9,9} + \frac{9,5p-10,4}{-7,4a-1,6w}$</p>
3	<p>Bitte kürzen Sie:</p> <p>a) $\frac{32f^2lpw - 24bf^2w}{24flwz + 40cfklqw + 16fklqw}$ b) $\frac{55el^2oy - 88lno - 88lo}{77lor - 88lo}$ c) $\frac{33gmow - 88gnortw + 11g^2korw}{-11fgko^2w - 22goqw - 44gkows}$ d) $\frac{12gnv - 8gq + 8g}{-16fgs + 28g}$ e) $\frac{-9bjnt - 108n}{-45nt + 54nrx + 27nz}$</p>
4	<p>Bitte rechnen Sie aus:</p> <p>a) $\frac{-5}{-3} \cdot \frac{-3}{10} \cdot \frac{-9}{5}$ b) $\frac{3}{2} \cdot \frac{1}{-10} \cdot \frac{9}{2} \cdot \frac{9}{4}$ c) $\frac{(\frac{3}{-5} - \frac{5}{-3} - \frac{3}{-10} - \frac{-9}{-5}) \cdot \frac{-3}{5}}{(-\frac{-3}{2} - \frac{5}{9} - \frac{-4}{5} + \frac{3}{4}) \cdot \frac{-1}{-4}}$ d) $\frac{5}{-8} : \frac{3}{4}$ e) $\frac{(\frac{-7}{8} + \frac{-5}{9}) \cdot \frac{-5}{8}}{(\frac{-1}{-10} - \frac{1}{-2}) \cdot \frac{-2}{3}}$ f) $\frac{(\frac{3}{-7} + \frac{2}{-9} + \frac{-1}{-3} - \frac{-9}{-4}) \cdot \frac{1}{-2}}{(\frac{-7}{10} + \frac{1}{2} - \frac{-9}{2} + \frac{9}{-2}) \cdot \frac{-3}{-2}}$ g) $\frac{(-\frac{2}{-7} - \frac{8}{-9}) \cdot \frac{-1}{-7}}{(\frac{-1}{8} + \frac{9}{-2}) \cdot \frac{-3}{-8}}$</p>