

Term – Stadt – Land – Fluss

| | Zusammenfassen | Ausmultiplizieren | Ausklammern | Binomische Formel | Klammer auflösen |
|----------|-------------------------------|--------------------------------------|-------------------------------------|---|-------------------------|
| A | $2x + 3y - 4x$ | $a \cdot (b + c)$ | $2x + 4y$ | $(2a + 3b)^2$ | $-(6p + 3q) + 6p$ |
| B | $-7a + 2b + 4a$ | $3a \cdot (2 + 4b)$ | $12ac - 9ab$ | $(-x + y)^2$ | $-2a + (3a - 1)$ |
| C | $6bc + 2cb$ | $-b \cdot (7+2c)$ | $xy - xz$ | $(-4x - 3y)^2$ | $(a + b) - (a - b)$ |
| D | $ab + 2a^2 - ab$ | $(1,5 + c) \cdot 2$ | $16a^2b + 20ab^2$ | $(7x + 3)(7x - 3)$ | $-(x + y) + x$ |
| E | $1,2c + 0,8c$ | $(3q + 9r) \cdot \frac{1}{3}$ | $rst^2 + 2srt$ | $(r - s)(r + s)$ | $(p + q) - (q + p)$ |
| F | $0,5xy - y + xy$ | $(2 + s)(3 - r)$ | $15az - 10ay + 5ax$ | $81p^2 - 36q^2$ | $-2a - (a + b)$ |
| G | $20a^2b + 3ab^2 - 10a^2b$ | $(5c + 2) \cdot (-2)$ | $27b^2c + 9bc^2$ | $25k^2 + 40km + 16m^2$ | $6u + (3v - 3u)$ |
| H | $7pq - 3qp$ | $-0,5 \cdot (8k - 6m)$ | $-25pq + 50qp$ | $\frac{4}{9}a^2 - \frac{16}{15}ab + \frac{16}{25}b^2$ | $-7t - (r + 2t)$ |
| I | $-10k + 2 + 5k$ | $(a - c) \cdot (1 + a)$ | $abc + ac$ | $100u^2 - 49v^2$ | $(u + v) - v$ |
| J | $ab + ac + ca$ | $3x \cdot (2x + y)$ | $uvw^2 - u^2vw$ | $(-6k + 15)^2$ | $(8p + q) - (q + 8p)$ |
| K | $6mn - 1,3 nm$ | $5pq(-p + q)$ | $17a^3c + 51a^2c^2$ | $(20h + 17)^2$ | $1,2ab - (2ab + c)$ |
| L | $-y \cdot 3 + 17y$ | $15st - 10s) \cdot \frac{1}{2}$ | $0,7rt + 1,4t$ | $(1,5 + 1,4a)^2$ | $5 + c - (c - 4)$ |
| M | $14h + h \cdot 6 - 1$ | $(2x + y) \cdot (x - y)$ | $-33xy + 11y$ | $(-1,2b + 1,1a)^2$ | $8,2 + 2d + (3d - 0,2)$ |
| N | $36op - (-4po)$ | $(6h - m) \cdot (-2m + h)$ | $3,2k^2 + 0,8k$ | $144m^2 - 196k^2$ | $7,1 - 3z + (2z - 0,1)$ |
| O | $-12d + d \cdot 6$ | $0,7 \cdot (10p + 20q)$ | $-6so - 12s$ | $9c^2 + 24cd + 16d^2$ | $1,8ab - (2 + 0,8ab)$ |
| P | $3cd - 2dc - cd$ | $(50o - 60p) \cdot 0,1$ | $3b - 6bc + 9bd$ | $\frac{36}{49}h^2 - \frac{12}{14}hk + \frac{1}{4}k^2$ | $-(x + 2y) - (x + 2y)$ |
| Q | $0,7rs + r \cdot 0,3 \cdot s$ | $(7k + 8n) \cdot 6$ | $\frac{1}{7}kn^2 - \frac{1}{14}n$ | $(10x - 2y)^2$ | $k^2 - (k^2 + h^2)$ |
| R | $0,25p + 2p$ | $(2x + y) \cdot 3y$ | $\frac{2}{3}op + \frac{1}{3}oq$ | $(p + q)(p - q)$ | $10m + (2m - n)$ |
| S | $-1,75ts + 0,75st$ | $(-0,5) \cdot (0,5 + a)$ | $\frac{4}{5}u^2v - \frac{1}{5}uw$ | $(2s - 1)^2$ | $(n + 3m) - 3m$ |
| T | $6x^2y + 2xy^2 - x^2y$ | $a \cdot (c - d)$ | $0,6z^2 + 1,8z^3$ | $(6t + 7s)^2$ | $-a + b - (c + b)$ |
| U | $100rs - 50sr$ | $uv \cdot (v + u)$ | $16k^2 - 8k + 24k^3$ | $(0,2a + 0,6b)^2$ | $-(r + s) + t$ |
| V | $-0,5uvw + uvv$ | $1,2rs \cdot (3r - 4s)$ | $r(p + q) + s(p + q)$ | $(0,7 - a)(a + 0,7)$ | $-(s - 2t) + 3t$ |
| W | $abc - cba$ | $(26q - 13p) \cdot \frac{1}{13}$ | $36ac + 72ad$ | $(1,7t - 2r)^2$ | $12a - (10a + 2b) + 2b$ |
| X | $2rst + 10rst - 8$ | $\frac{1}{8} \cdot (16q - 24r)$ | $-81r^2s^2 + 9rs$ | $0,81u^2 + 0,72uv + 0,16v^2$ | $-(x - y) - (x + y)$ |
| Y | $-3,5 + ab + 3,5$ | $\frac{1}{10}t \cdot (100t - 70t^2)$ | $(a + b) \cdot 3 + (a + b) \cdot x$ | $1,69c^2 - 5,2cd + 4d^2$ | $0,5m - (1 + m)$ |
| Z | $-xy + xy + 1$ | $(15a^2 - 20b^2) \cdot \frac{1}{5}$ | $14x^2 - 7x$ | $225w^2 - 400z^2$ | $(3 - n) + n$ |



Lösung: Term – Stadt – Land – Fluss

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|----------|------------------|-----------------------|---------------------------------------|-----------------------------------|------------------|
| A | $-2x + 3y$ | $ab + ac$ | $2(x + 2y)$ | $4a^2 + 12ab + 9b^2$ | $-3q$ |
| B | $-3a + 2b$ | $6a + 12ab$ | $3a(4c - 3b)$ | $x^2 - 2xy + y^2$ | $a - 1$ |
| C | $8bc$ | $-7b - 2bc$ | $x(y - z)$ | $16x^2 + 24xy + 9y^2$ | $2b$ |
| D | $2a^2$ | $3 + 2c$ | $4ab(4a + 5b)$ | $49x^2 - 9$ | $-y$ |
| E | $2c$ | $q + 3r$ | $rst(t + 2)$ | $r^2 - s^2$ | 0 |
| F | $1,5xy - y$ | $6 - 2r + 3s - rs$ | $5a(3z - 2y + x)$ | $(9p + 6q)(9p - 6q)$ | $-3a - b$ |
| G | $10a^2b + 3ab^2$ | $-10c - 4$ | $9bc(3b + c)$ | $(5k + 4m)^2$ | $3u + 3v$ |
| H | $4pq$ | $-4k + 3m$ | $25pq$ | $(\frac{2}{3}a - \frac{4}{5}b)^2$ | $-9t - r$ |
| I | $-5k + 2$ | $a + a^2 - c - ac$ | $ac(b + 1)$ | $(10u + 7v)(10u - 7v)$ | u |
| J | $ab + 2ac$ | $6x^2 + 3xy$ | $uvw(w - u)$ | $36k^2 - 180k + 225$ | 0 |
| K | $4,7mn$ | $-5p^2q + 5pq^2$ | $17a^2c(a + 3c)$ | $400h^2 + 680h + 289$ | $-0,8ab - c$ |
| L | $14y$ | $7,5st - 5s$ | $0,7t(r + 2)$ | $2,25 + 4,2a + 1,96a^2$ | 9 |
| M | $20h - 1$ | $2x^2 - xy - y^2$ | $11y(-3x + 1)$ | $1,44b^2 - 2,64ab + 1,21a^2$ | $5d + 8$ |
| N | $40 op$ | $-13hm + 6h^2 + 2m^2$ | $0,8k(4k + 1)$ | $(12m + 14k)(12m - 14k)$ | $7 - z$ |
| O | $-6d$ | $7p + 14q$ | $6s(-o - 2) \text{ oder } -6s(o + 2)$ | $(3c + 4d)^2$ | $ab - 2$ |
| P | 0 | $5 o - 6p$ | $3b(1 - 2c + 3d)$ | $(\frac{6}{7}h - \frac{1}{2}k)^2$ | $-2x - 4y$ |
| Q | rs | $42k + 48n$ | $\frac{1}{7}n(kn - \frac{1}{2})$ | $100x^2 - 40xy + 4y^2$ | $-h^2$ |
| R | $2,25p$ | $6xy + 3y^2$ | $\frac{1}{3}o \cdot (-2p + q)$ | $p^2 - q^2$ | $12m - n$ |
| S | $-st$ | $-0,25 - 0,5a$ | $\frac{1}{5}u(4uv - w)$ | $4s^2 - 4s + 1$ | n |
| T | $5x^2y + 2xy^2$ | $ac - ad$ | $0,6z^2(1 + 3z)$ | $36t^2 - 84st + 49s^2$ | $-a - c$ |
| U | $50rs$ | $uv^2 + u^2v$ | $8k(2k - 1 + 3k^2)$ | $0,04a^2 + 0,24ab + 0,36b^2$ | $-r - s + t$ |
| V | $0,5 uvw$ | $3,6r^2s - 4,8rs^2$ | $(p + q)(r + s)$ | $0,49 - a^2$ | $5t - s$ |
| W | 0 | $2q - p$ | $36a(c + 2d)$ | $2,89t^2 - 6,8rt + 4r^2$ | $2a$ |
| X | $12rst - 8$ | $2q - 3r$ | $9rs(-9rs + 1)$ | $(0,9u + 0,4v)^2$ | $-2x$ |
| Y | ab | $10t^2 - 7t^3$ | $(a + b)(3 + x)$ | $(1,3c + 2d)^2$ | $-0,5m - 1$ |
| Z | 1 | $3a^2 - 4b^2$ | $7x(2x - 1)$ | $(15w + 20z)(15w - 20z)$ | 3 |

