

Aufgaben zu Gleichungssystemen – Brüche 3

Bestimmen Sie die Unbekannten.

Aufgaben	Lösungen
$\frac{10}{7} o + \frac{1}{2} u + \frac{1}{9} c = \frac{211}{378}$ $- 2o + \frac{1}{2} u - \frac{3}{4} c = 0$ $- \frac{1}{10} o - \frac{3}{4} u + \frac{10}{7} c = -\frac{1727}{420}$	
$- c - \frac{7}{3} r - \frac{1}{3} t = -\frac{569}{252}$ $- \frac{5}{4} c - \frac{2}{5} r - t = -\frac{34}{105}$ $- \frac{1}{4} c + \frac{3}{2} r + \frac{1}{2} t = \frac{129}{56}$	
$- 10j + \frac{9}{10} g + 5f = -\frac{1041}{40}$ $- \frac{3}{5} j - \frac{5}{9} g - 3f = -\frac{83}{20}$ $- \frac{2}{9} j - \frac{10}{3} g + \frac{3}{7} f = \frac{1543}{210}$	
$2x - 7r - \frac{8}{7} u = -\frac{1387}{196}$ $- \frac{3}{7} x - r - \frac{1}{6} u = -\frac{305}{168}$ $- \frac{5}{9} x - \frac{9}{2} r - u = -\frac{375}{56}$	
$\frac{9}{8} p - \frac{1}{3} h + \frac{5}{6} n = -\frac{281}{24}$ $- \frac{3}{8} p + \frac{9}{7} h + \frac{1}{2} n = \frac{323}{56}$ $\frac{7}{6} p - \frac{1}{4} h + \frac{5}{3} n = -\frac{611}{48}$	

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Aufgaben	Lösungen
$\frac{10}{7} o + \frac{1}{2} u + \frac{1}{9} c = \frac{211}{378}$ $- 2o + \frac{1}{2} u - \frac{3}{4} c = 0$ $- \frac{1}{10} o - \frac{3}{4} u + \frac{10}{7} c = -\frac{1727}{420}$	$o = 1;$ $u = -1;$ $c = -\frac{10}{3}$
$- c - \frac{7}{3} r - \frac{1}{3} t = -\frac{569}{252}$ $- \frac{5}{4} c - \frac{2}{5} r - t = -\frac{34}{105}$ $- \frac{1}{4} c + \frac{3}{2} r + \frac{1}{2} t = \frac{129}{56}$	$c = -\frac{5}{7};$ $r = \frac{7}{6};$ $t = \frac{3}{4};$
$- 10j + \frac{9}{10} g + 5f = -\frac{1041}{40}$ $- \frac{3}{5} j - \frac{5}{9} g - 3f = -\frac{83}{20}$ $- \frac{2}{9} j - \frac{10}{3} g + \frac{3}{7} f = \frac{1543}{210}$	$j = 3;$ $g = -\frac{9}{4};$ $f = \frac{6}{5};$
$2x - 7r - \frac{8}{7} u = -\frac{1387}{196}$ $- \frac{3}{7} x - r - \frac{1}{6} u = -\frac{305}{168}$ $- \frac{5}{9} x - \frac{9}{2} r - u = -\frac{375}{56}$	$x = \frac{9}{8};$ $r = \frac{9}{7};$ $u = \frac{2}{7};$
$\frac{9}{8} p - \frac{1}{3} h + \frac{5}{6} n = -\frac{281}{24}$ $- \frac{3}{8} p + \frac{9}{7} h + \frac{1}{2} n = \frac{323}{56}$ $\frac{7}{6} p - \frac{1}{4} h + \frac{5}{3} n = -\frac{611}{48}$	$p = -9;$ $h = \frac{9}{4};$ $n = -1;$