**Gleichungen mit Bruchzahlen**

Löse folgende Bruchgleichungen und schreibe die Lösungsmenge.

(HN ist der Hauptnenner.)

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| (1) HN: 12  |· 12  42 – 21x = 117 + 4x | -4x -42  -25x = 75 |:(-25)  x = - 3 L = {-3} | (2) HN: 30  |· 30  20x – 42 = 75 – 45x |+45x+42  65x = 117 |:65  x = 1,8 L = {1,8} |

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| (3) HN: 18  |· 18    7x + 63 + 6x = 6 |T  13x + 63 = 6 |-63  13x = -57 |:13  x = - L = {-} | (4) HN: 50  |· 50  270x – 48 – 25x = 197 |T  245x – 48 = 197 |+48  245x = 245 |:245  x = 1 L = {1} |

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| (5) 6(4x + 1,6) - 2,71x = 158,63  24x + 9,6 – 2,71x = 158,63 |T  21,29x + 9,6 = 158,63 |- 9,6  21,29x = 149,03 |: 21,29  x = 7 L = {7} |

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| (6) 9(5,82x + 6) - 5,5x = 429,04  52,38x + 54 – 5,5x = 429,04 |T  46,88x + 54 = 429,04 |- 54  46,88x = 375,04 |:46,88  x = 8 L = {8} |