13. Löse die Gleichungen und finde das Lösungswort.

a) $9x - 6 = 30 \quad | +6$

$9x = 36 \quad | :9$

$x = 4$

b) $x - 33 = -x - 1 \quad | +x$

$2x - 33 = -1 \quad | +33$

$2x = 32 \quad | :2$

$x = 16$

c) $2x + 1{,}4 = 0{,}2 + 8x \quad | -2x$

$1{,}4 = 0{,}2 + 6x \quad | -0{,}2$

$6x = 1{,}2 \quad | :6$

$x = 0{,}2$

d) $22{,}5a + 35 = 45 + 10 \quad |$

$22{,}5a + 35 = 55 \quad | -35$

$22{,}5a = 20 \quad | :22{,}5$

$a = 0{,}89 \quad 8/9$

e) $42 - 8a = 12 - 4a \quad | +8a$

$42 = 12 + 4a \quad | -12$

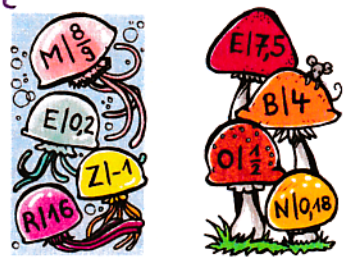
$4a = 30 \quad | :4$

$a = 7{,}5$

f) $\frac{1}{50} = \frac{a}{9} \quad | \cdot 9$

$a = \frac{9}{50}$

$a = 0{,}18$



Lösungswort: BREMEN

14. a) $8(2x + 5) = 104$

$16x + 40 = 104 \quad | -40$

$16x = 64 \quad | :16$

$x = 4$

c) $7(6 - x) = 16 + (2 - 4x)$

$42 - 7x = 16 + 2 - 4x$

$42 - 7x = 18 - 4x \quad | +4x$

$42 - 3x = 18 \quad | -42$

$-3x = -24 \quad | :(-3)$

$x = 8$

e) $\frac{x}{5} = \frac{33}{15} \quad | \cdot 5$

$x = \frac{33}{3}$

$x = 11$

b) $2(x - 1) + 7x = -20$

$2x - 2 + 7x = -20$

$9x - 2 = -20 \quad | +2$

$9x = -18 \quad | :9$

$x = -2$

d) $5(8 - 9x) = -5(x - 18)$

$40 - 45x = -5x + 90 \quad | +5x$

$40 - 40x = 90 \quad | -40$

$-40x = 50 \quad | :(-40)$

$x = -1{,}25$

f) $\frac{x - 1}{9} = \frac{18}{27} \quad | \cdot 9 \cdot 27$

$27(x - 1) = 18 \cdot 9$

$27x - 27 = 162 \quad | +27$

$27x = 189 \quad | :27$

$x = 7$

−2	NS	−1,25	IO	11	NE	7	LL	8	AT	4	SE

Lösungswort:

a)	b)	c)	d)	e)	f)
SE	NS	AT	IO	NE	LL