Tägliche Übungen

a)	$26 = x + 30$
b)	$42 = y + 6$
c)	$25 = b - 16$
d)	$5 - b = 19$
e)	$45 - b = 2$
f)	$38 + a = 39$
g)	$-29 - 4 \cdot x + 10 \cdot x + 13 = 8$
h)	$1 \cdot x + 4 \cdot x - 5 - 6 = 4$
i)	$13 \cdot a - 17 - 5 \cdot a + 2 = 81$

Lösungen Tägliche Übungen

a)

$$26 = x + 30$$
$$26 = x + 30 \qquad | -26$$
$$0 = x + 4 \qquad | -x$$
$$-x = 4 \qquad |: (-1)$$
$$x = -4$$

Probe:
$$26 = x + 30$$
$$26 = (-4) + 30$$
$$26 = -4 + 30$$
$$26 = 26$$

b)

$$42 = y + 6$$
$$42 = y + 6 \qquad | -42$$
$$0 = y - 36 \qquad | -y$$
$$-y = -36 \qquad |: (-1)$$
$$y = 36$$

Probe:
$$42 = y + 6$$
$$42 = (36) + 6$$
$$42 = 36 + 6$$
$$42 = 42$$

c)

$$25 = b - 16$$
$$25 = b - 16 \qquad | -25$$
$$0 = b - 41 \qquad | -b$$
$$-b = -41 \qquad |: (-1)$$
$$b = 41$$

Probe:
$$25 = b - 16$$
$$25 = (41) - 16$$
$$25 = 41 - 16$$
$$25 = 25$$

d)

$$5 - b = 19$$
$$5 - b = 19 \qquad | -5$$
$$-b = 14 \qquad |: (-1)$$
$$b = -14$$

Probe:
$$5 - b = 19$$
$$5 - (-14) = 19$$
$$5 + 14 = 19$$
$$19 = 19$$

e)

$$45 - b = 2$$
$$45 - b = 2 \qquad | -45$$
$$-b = -43 \quad |: (-1)$$
$$b = 43$$

Probe:
$$45 - b = 2$$
$$45 - (43) = 2$$
$$45 - 43 = 2$$
$$2 = 2$$

f)

$$38 + a = 39$$
$$a + 38 = 39 \qquad | -38$$
$$a = 1$$

Probe:
$$38 + a = 39$$
$$38 + (1) = 39$$
$$38 + 1 = 39$$
$$39 = 39$$

g)

$$-29 - 4 \cdot x + 10 \cdot x + 13 = 8$$
$$6 \cdot x - 16 = 8 \qquad | +16$$
$$6 \cdot x = 24 \quad |: (6)$$
$$x = 4$$

Probe:
$$-29 - 4 \cdot x + 10 \cdot x + 13 = 8$$
$$-29 - 4 \cdot (4) + 10 \cdot (4) + 13 = 8$$
$$-29 - 16 + 40 + 13 = 8$$
$$8 = 8$$

h)

$$1 \cdot x + 4 \cdot x - 5 - 6 = 4$$
$$5 \cdot x - 11 = 4 \qquad | +11$$
$$5 \cdot x = 15 \quad |: (5)$$
$$x = 3$$

Probe:
$$1 \cdot x + 4 \cdot x - 5 - 6 = 4$$
$$1 \cdot (3) + 4 \cdot (3) - 5 - 6 = 4$$
$$3 + 12 - 5 - 6 = 4$$
$$4 = 4$$

i)

$$13 \cdot a - 17 - 5 \cdot a + 2 = 81$$
$$8 \cdot a - 15 = 81 \quad | +15$$
$$8 \cdot a = 96 \quad |: (8)$$
$$a = 12$$

Probe:
$$13 \cdot a - 17 - 5 \cdot a + 2 = 81$$
$$13 \cdot (12) - 17 - 5 \cdot (12) + 2 = 81$$
$$156 - 17 - 60 + 2 = 81$$
$$81 = 81$$