

$$1) \overline{ab}_{(3)} + \overline{ba}_{(3)} = 12$$

$$(3a+b) + (3b+a) = 12$$

$$4a + 4b = 12$$

$$4 \cdot (a+b) = 12$$

$$a + b = 3$$

$$a = 1; 2$$

$$b = 2; 1$$

Antwort: 12; 21

$$2) \overline{ab}_{(3)} - \overline{ba}_{(3)} = 2$$

$$(3a+b) - (3b+a) = 2$$

$$2a - 2b = 2$$

$$a - b = 1$$

$$a = 2$$

$$b = 1$$

Antwort: 21