

Algebra

Setze ein und rechne aus.

1.

- |                                       |                                   |       |
|---------------------------------------|-----------------------------------|-------|
| a) $12a - 9$                          | $a = 2$                           | _____ |
| b) $12a - 9$                          | $a = 5$                           | _____ |
| c) $3a - 4b$                          | $a = 3, b = 2$                    | _____ |
| d) $(3 - a)(4 + b)$                   | $a = 2, b = 5$                    | _____ |
| e) $ax + 2b - cx$                     | $a = 6, b = 2, c = 3,$<br>$x = 2$ | _____ |
| f) $\frac{x+1}{x+2}$                  | $x = 1$                           | _____ |
| g) $2(a-2b) + x$                      | $a = 3, b = 4, x = 2$             | _____ |
| h) $ax - bx + 3 - 2(x-b)$             | $a = 10, b = -1, x = 2$           | _____ |
| i) $\frac{\frac{x}{y}}{\frac{2}{x}}$  | $x = 2, y = 7$                    | _____ |
| j) $\frac{x}{y} \cdot \frac{2x-y}{y}$ | $x = 8, y = 4$                    | _____ |

2. Ergänze.

- a)  $25 \cdot 25 - \underline{\hspace{2cm}} = 111$
- b)  $5 : 0,25 = \underline{\hspace{2cm}} : 10$
- c)  $198 - \underline{\hspace{2cm}} = 700 : 10$
- d)  $0,8 \cdot 0,05 = \underline{\hspace{2cm}}$
- e)  $1 \text{ Million} - 111 = \underline{\hspace{2cm}}$
- f)  $6\,666 - \underline{\hspace{2cm}} + 250 = 900$
- g)  $125 \cdot \underline{\hspace{2cm}} + 60 = 810$
- h)  $6 + 2 \cdot 14 - \underline{\hspace{2cm}} - (3 - 14) = 30$