

① Ergänze die Lücken.

a)  $(x + 5) \cdot (x + 12) = x^2 + 12x + \blacksquare + \blacksquare$

b)  $(2x + 7) \cdot (3x + 2) = 6x^2 + 4x + \blacksquare + \blacksquare$

c)  $(3a + 4) \cdot (4a + 5) = \blacksquare + 15a + \blacksquare + 20$

d)  $(5x + 3y) \cdot (3x + 9) = 15x^2 + \blacksquare + 9xy + \blacksquare$

e)  $(4a + 3b) \cdot (2a + 5b) = 8a^2 + \blacksquare + 6ab + \blacksquare$

f)  $(7x + 4y) \cdot (8x + 11) = \blacksquare + 77x + \blacksquare + \blacksquare$

② Ergänze die leeren Felder. Nutze die Terme unten.

a)  $(x + \blacksquare) \cdot (\blacksquare + 2) = xy + \blacksquare + 4y + 8$

b)  $(\blacksquare - 3)(5 + \blacksquare) = 5a + ab - \blacksquare - 3b$

c)  $(x + \blacksquare)(7 - \blacksquare) = \blacksquare - xy + 7 - y$

d)  $(5a - \blacksquare)(3c - \blacksquare) = \blacksquare - 5ad - 3bc + bd$

e)  $(8x - 5y)(\blacksquare + \blacksquare) = 48x^2 - \blacksquare xy - 10y^2$

f)  $(a - \blacksquare)(\blacksquare - 9c) = 2a^2 - \blacksquare ac + 36c^2$

|     |      |      |        |      |
|-----|------|------|--------|------|
| $a$ | $2a$ | $b$  | $b$    | $4c$ |
| $d$ | $2x$ | $6x$ | $7x$   |      |
| $y$ | $y$  | $2y$ | $15ac$ |      |
|     | $1$  | $4$  | $14$   |      |
|     | $15$ | $17$ |        |      |

- ③ Löse die Klammern auf und fass, wenn möglich, zusammen.

a)  $(a + 4) \cdot (b + 8)$

b)  $(a + 5) \cdot (b + 7)$

c)  $(x + 1) \cdot (y + 3)$

d)  $(a + 3) \cdot (4 + b)$

e)  $(a + 2) \cdot (12 + b)$

f)  $(x + 6) \cdot (9 + y)$

g)  $(x + 6) \cdot (y + 7)$

h)  $(3 + d) \cdot (e + 8)$

i)  $(11 + a) \cdot (b + 5)$

j)  $(7 + x) \cdot (3 + y)$

