

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

