

- $3 \cdot 7 = 21$
- $6 \cdot 2 = 12$
- $5 \cdot 4 = 20$
- $6 \cdot 6 = 36$
- $4 \cdot 7 = 28$

Activity 9-2 (p. 63)

- $x^2 + x$
- $x^2 + 5x + 6$
- $x^2 + xy + 5x + 5y$
- $2y + 2$
- $y^2 + 5y + 4$
- $2x^2 + 2xy + 5x + 3y + 3$

Activity 9-3 (p. 64)

- $5x + 20$
- $x^2 + 6x + 5$
- $x^2 + xy + 7x + 7y$
- $2x^2 + 3x$
- $y^2 + 15y + 56$
- $2x^2 + 2xy + 9x + 5y + 10$

Activity 9-4 (p. 65)

- $-2x$
- $3x^2$
- $-2xy$
- $4x$
- Possible answer:

Activity 9-5 (p. 66)

- 50
- $2xy^2$
- $xy^2 + xy$
- $x^3 + 3x^2 + 2x$
- $y^3 + y^2$
- $x^3 + 2x^2y + 2xy^2$

Challenge 9 (p. 67)

- $6x$
- 22
- $4x + 2$
- $2x + 14$
- $4y + 2$
- $2y + 2x + 10$

Activity 10-2 (p. 71)

- $x + 4$
- $2x + 9$
- $x + y$
- $2x + y + 1$
- $2x + 5$
- $2x + 5$

Activity 10-3 (p. 72)

- $2y + x + 5$
- $2x + 3$
- $2x + 1$
- impossible

- $4 + y$
- $y + x$

Activity 10-4 (p. 73)

- y
- x
- impossible
- 5
- $2x^2 - 3$
- $2x^2 + 3x - 5$

Challenge 10 (p. 74)

- $(x + 1)(x + 2)$
- $(x + 2)(2x + 2)$
- $(2x + 2)(2x + 1)$
- $(y + x)(x + 1)$

Activity 11-1 (p. 77)

- downstairs and outside the minus area

Activity 11-2 (p. 78)

- $= 2xy + 3x^2 + 5x - (y^2 + y + 3)$
- $= 11x + 9 - 4x^2$
- $= 4x^2 - (11x + 9)$

Activity 11-3 (p. 79)

- $-5 > -7$
- $-5 < -2$
- $-6 < 10$
- $3 < 5$
- $x = x$
- $10 = 10$

Activity 11-4 (p. 80)

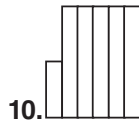
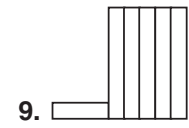
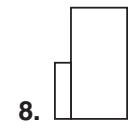
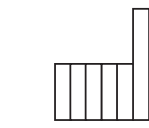
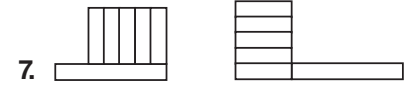
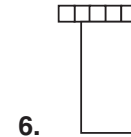
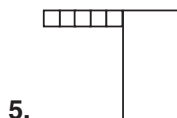
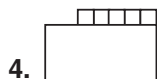
- $10 > 3$
- $4 < 7$
- $4 > -4$
- $-4 = -4$

Activity 11-5 (p. 81)

- $3x < 3x + 1$
- $5x = 5x$
- $3x + 5 > 3x$
- $x^2 + 1 > x^2$

Challenge 11 (p. 82)

- $2y + 2x + 2$
- $4y + 30$
- $2y + 6x + 6$



Activity 12-1 (p. 84)

- false
- true
- false
- false
- false
- false

Activity 12-2 (p. 85)

- false
- true
- false
- false
- false
- true

Activity 12-3 (p. 86)

- true
- false
- true
- false
- true
- false
- a minus sign

Challenge 12 (p. 87)

- $v = 1$; s.a. = 6
- $v = 2$; s.a. = 10