

Book

$$\begin{aligned} 67) & 10x - 12y - 4x - 3y + 9 \\ & = (10-4)x + (-12-3)y + 9 \\ & = 6x - 15y + 9 \end{aligned}$$

$$\begin{aligned} 69) & -8 - 6k - 9k + 12k + 4 \\ & = (-8+4) + (-6-9+12)k \\ & = -4 - 3k \end{aligned}$$

$$\begin{aligned} 71) & -8uv + 6u + 12uv \\ & = (-8+12)uv + 6u \\ & = 4uv + 6u \end{aligned}$$

$$\begin{aligned} 76) & 4\tilde{a}b - 2ab\tilde{v} + 6ab\tilde{v} - 7\tilde{a}b \\ & = (4-7)\tilde{a}b + (-2+6)ab\tilde{v} \\ & = -3\tilde{a}b + 4ab\tilde{v} \end{aligned}$$

$$\begin{aligned} 42) & 5(3+w) \\ & = 15 + 5w \end{aligned}$$

$$46) -6(k+2)$$

$$= -6k - 12$$

$$50) -2(13-t^2)$$

$$= -26 + 2t^2$$

$$44) 2(2r-r+s)$$

$$= 4r - 2r + 2s$$

$$48) -(a-8b+4c)$$

$$= -a + 8b - 4c$$

$$52) -2(-10p-12q+3)$$

$$= 20p + 24q - 6$$

$$75) -3(2x+1) - 13$$

$$= -6x - 3 - 13$$

$$= -6x - 16$$

$$78) 11 + 2(p-8)$$

$$= 11 + 2p - 16$$

$$= -5 + 2p$$

$$80) 10 - 5(2 - 5m)$$

$$= 10 - 10 + 25m$$

$$= 25m$$

$$83) 10(x+5) - 3(2x+9)$$

$$= 10x + 50 - 6x - 27$$

$$= 4x + 23$$

$$86) -(8w+5) + 3(w-15)$$

$$= -8w - 5 + 3w - 45$$

$$= -5w - 50$$

$$89) 20a - 4(b+3a) - 5b$$

$$= 20a - 4b - 12a - 5b$$

$$= 8a - 9b$$

$$92) 12 - (5u+v) - 4(u-6) + 2v$$

$$= 12 - 5u - v - 4u + 24 + 2v$$

$$= 36 - 9u + v$$

$$94) 7 + 3(2a-5) - (6a-8b^2) - 2b^2$$

$$= 7 + 6a - 15 - 6a + 8b^2 - 2b^2$$

$$= -8 + 6b^2$$

Assessment 4 Practice Test

$$1a) 7(a+b)$$

$$= 7a + 7b$$

$$1b) 4(l+w)$$

$$= 4l + 4w$$

$$2a) -5(3x-4y)$$

$$= -15x + 20y$$

$$2b) -6(4p-9r)$$

$$= -24p + 54r$$

$$3a) -7x + 5 + 3x - x$$

$$= -5x + 5$$

$$3b) -11p + 5p + 6 + 2p$$

$$= (-11 + 5 + 2)p + 6$$

$$= -4p + 6$$

$$4a) -3(2z-6) + 5(2z-5)$$

$$= -6z + 18 + 10z - 25$$

$$= 4z - 7$$

$$4b) 2(5r+4) - 3(7r-3)$$

$$= 10r + 8 - 21r + 9$$

$$= -11r + 17$$

$$5a) -(3x-4) + 6(2x-5) - 3x$$

$$= -3x + 4 + 12x - 30 - 3x$$

$$= 6x - 26$$

$$5b) 2(3k-4) - (8k-5) - 2$$

$$= 6k - 8 - 8k + 5 - 2$$

$$= -2k - 5$$