

Book

$$13) 5 + 2(3-5)$$

$$= 5 + 2(-2)$$

$$= 5 - 4$$

$$= 1$$

$$16) -4(1-3) - 8$$

$$= -4(-2) - 8$$

$$= 8 - 8$$

$$= 0$$

$$22) 48 - 36 \div (6)(-2)$$

$$= 48 - 6(-2)$$

$$= 48 + 12$$

$$= 60$$

$$25) |-10+13| - |-6|$$

$$= |3| - |-6|$$

$$= 3 - 6$$

$$= -3$$

$$28) \sqrt{36-11} + 2\sqrt{9}$$

$$= \sqrt{25} + 2\sqrt{9}$$

$$= 5 + 2(3)$$

$$= 5 + 6$$

$$= 11$$

$$31) -3 + 2(5-9)^2$$

$$= -3 + 2(-4)^2$$

$$= -3 + 2(16)$$

$$= -3 + 32$$

$$= 29$$

$$34) -7 + (1-5)^2 \div 4$$

$$= -7 + (-4)^2 \div 4$$

$$= -7 + 16 \div 4$$

$$= -7 + 4$$

$$= -3$$

$$37) 90 \div (-3) \cdot (-1) \div (-6)$$

$$= -30 \cdot (-1) \div (-6)$$

$$= 30 \div (-6)$$

$$= -5$$

$$40) [(-8)^2 - 5] \div (-4 + 1)$$

$$= (64 - 5) \div (-4 + 1)$$

$$= 59 \div (-3)$$

$$= -\frac{59}{3}$$

$$[(-8)^2 - 5] \div (-4 + 1)$$

$$= (64 - 25) \div (-4 + 1)$$

$$= 39 \div (-3)$$

$$= -13$$

$$43) \frac{3^2 - 27}{-9 + 6}$$

$$= \frac{9 - 27}{-3}$$

$$= \frac{-18}{-3}$$

$$= 6$$

$$46) \frac{10 - (-5)(3)}{-9 - 4^2}$$

$$= \frac{10 + 15}{-9 - 16}$$

$$= \frac{25}{-25}$$

$$= -1$$

# Practice Assessment unit 3

$$\begin{aligned} 38a) & -5(7) - 3(2-6) \\ & = -35 - 3(2-6) \\ & = -35 - 3(-4) \\ & = -35 + 12 \\ & = -23 \end{aligned}$$

$$\begin{aligned} 38b) & 3(3-9) - 5(8) \\ & = 3(3-9) - 40 \\ & = 3(-6) - 40 \\ & = -18 - 40 \\ & = -58 \end{aligned}$$

$$\begin{aligned} 39a) & -6(7-12) \div (-3) \\ & = -6(-5) \div (-3) \\ & = 30 \div (-3) \\ & = -10 \end{aligned}$$

$$\begin{aligned} 39b) & (15)(4-12) \div (-6) \\ & = 15(-8) \div (-6) \\ & = -120 \div (-6) \\ & = 20 \end{aligned}$$

$$\begin{aligned} 40a) & 5(-2) - 3(5-2) - 5(-3) \\ & = 5(4) - 3(5-2) - 5(-3) \\ & = 20 - 3(3) + 15 \\ & = 20 - 9 + 15 \\ & = 26 \end{aligned}$$

$$\begin{aligned} 40b) & -5(3) - 7(3-6) - 8(-1) \\ & = -5(9) - 7(3-6) + 8 \\ & = -45 - 7(-3) + 8 \\ & = -45 + 21 + 8 \\ & = -16 \end{aligned}$$

$$\begin{aligned} 41a) & -\left(\frac{2}{3}\right) \div \left(-\frac{1}{4}\right) + \frac{1}{3} \\ & = -\frac{2}{3} \cdot \left(-\frac{4}{1}\right) + \frac{1}{3} \\ & = \frac{8}{3} + \frac{1}{3} \\ & = \frac{9}{3} \\ & = 3 \end{aligned}$$

$$\begin{aligned} 41b) & \left(\frac{4}{3}\right) \div \left(-\frac{8}{5}\right) \left(-\frac{1}{3}\right) \\ & = \frac{4}{3} \cdot \left(-\frac{5}{8}\right) \left(-\frac{1}{3}\right) \\ & = \left(-\frac{5}{6}\right) \left(-\frac{2}{6}\right) = \frac{10}{36} = \frac{5}{18} \end{aligned}$$

$$\begin{aligned} 37a) & -3(-4) + 5(-7) \\ & = 12 - 35 \\ & = -23 \end{aligned}$$

$$\begin{aligned} 37b) & 2(-5) - 4(-3) \\ & = -10 + 12 \\ & = 2 \end{aligned}$$