

Date: 10.08.18

# Book page 109 :

$$1. \quad -7 \div 0 = \frac{-7}{0} = \text{undefined}$$

$$2. \quad 0 \div (-7) = 0$$

$$3. \quad -100 \div (-4) = 25$$

$$4. \quad -100 - (-4) = -100 + 4 = -96$$

$$5. \quad (-100)(-4) = 400$$

$$6. \quad -100 + (-4) = -100 - 4 = -104$$

$$7. \quad (-12)^2 = 144$$

$$8. \quad -12^2 = -144$$

$$9. \quad -1-5-8-3 = -6-8-3 = -14-3 = -17$$

$$10. \quad (-2)(6)(-3)(-10)$$

$$= 12(-3)(-10)$$

$$= -36(-10)$$

$$= 360$$

$$\begin{aligned} 13. \quad & 5 + 3(2 - 5) \\ & = 5 + 3(-3) \\ & = 5 - 9 \\ & = -4 \end{aligned}$$

$$\begin{aligned} 14. \quad & 6 - 4(8 - 10) \\ & = 6 - 4(-2) \\ & = 6 + 8 \\ & = 14 \end{aligned}$$

$$\begin{aligned} 15. \quad & -2(3 - 6) + 10 \\ & = -2(-3) + 10 \\ & = 6 + 10 \\ & = 16 \end{aligned}$$

$$\begin{aligned} 16. \quad & -4(1 - 3) - 8 \\ & = -4(-2) - 8 \\ & = 8 - 8 = 0 \end{aligned}$$

$$\begin{aligned} 17. \quad & -8 - 6^2 \\ & = -8 - 36 \\ & = -44 \end{aligned}$$

$$\begin{aligned} 20. \quad & 36 \div (-2)(3) \\ & = -18(3) \\ & = -54 \end{aligned}$$

$$\begin{aligned} 23. \quad & 100 - 2(3 - 8) \\ & = 100 - 2(-5) \\ & = 100 + 10 \\ & = 110 \end{aligned}$$

$$\begin{aligned} 26. \quad & |4 - 9| - |-10| \\ & = |-5| - |-10| \\ & = 5 - 10 \\ & = -5 \end{aligned}$$

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

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

$$= 5 + 2(3)$$

$$= 5 + 6$$

$$= 11$$

$$30. 6^2 - (-4)^2$$

$$= 36 - 16$$

$$= 20$$

$$32. -5 + 4(8-10)^2$$

$$= -5 + 4(-2)^2$$

$$= -5 + 4 \cdot 4$$

$$= -5 + 16$$

$$= 11$$

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

$$= (64 - 25) \div (-3)$$

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

$$= -13$$

$$47. \frac{|-23+7|}{5^2 - (-3)^2} = \frac{|-16|}{25-9} = \frac{16}{16} = 1$$

$$49. \frac{8 + (-2)^2}{-5 + (-1)} = \frac{8+4}{-5-1} = \frac{12}{-6} = -2$$

$$50. 15 - [10 - (20 - 25)]$$

$$= 15 - [10 - (-5)]$$

$$= 15 - [10 + 5]$$

$$= 15 - 15$$

$$= 0$$

# Unit 3 Practice Assessment:

$$16. \textcircled{b} -8 - (-12) - |-20|$$

$$= -8 + 12 - 20$$

$$= 4 - 20$$

$$= -16$$

$$20. \textcircled{a} -3(-4) + 5(-7) = 12 - 35 = -23$$

$$20. \textcircled{b} \quad 2(-5) - 4(-3)$$

$$= -10 + 12$$

$$= 2$$