# Book page 109:

1. \(-7 \div 0 = \frac{-7}{0} = \text{undefined}\)

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

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

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

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

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

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

8. \(-12^2 = -144\)

9. \(-1 - 5 - 8 - 3 = -6 - 8 - 3 = -14 - 3 = -17\)

10. \((-2)(6)(-3)(-10) = 12(-3)(-10) = -36(-10) = 360\)
13. \[5 + 3(2-5)\]
   \[= 5 + 3(-3)\]
   \[= 5 - 9\]
   \[= -4\]

14. \[6 - 4(8-10)\]
   \[= 6 - 4(-2)\]
   \[= 6 + 8\]
   \[= 14\]

15. \[-2(3-6)+10\]
   \[= -2(-3)+10\]
   \[= 6+10\]
   \[= 16\]

16. \[-4(1-3)-8\]
   \[= -4(-2)-8\]
   \[= 8 - 8 = 0\]
17. \[-8 - 6^2\]
    \[= -8 - 36\]
    \[= -44\]

20. \[36 \div (-2)(3)\]
    \[= -18(3)\]
    \[= -54\]

23. \[100 - 2(3-8)\]
    \[= 100 - 2(-5)\]
    \[= 100 + 10\]
    \[= 110\]

26. \[|4 - 5| - |-10|\]
    \[= | -5| - | -10|\]
    \[= 5 - 10\]
    \[= -5\]
28. \[ \sqrt{36-11} + 2\sqrt{9} \]
   \[= \sqrt{25} + 2 \sqrt{9} \]
   \[= 5 + 2(3) \]
   \[= 5 + 6 \]
   \[= 11 \]

30. \[6^\circ - (-4)^\circ \]
   \[= 36 - 16 \]
   \[= 20 \]

32. \[-5 + 4 (8-10) \]
   \[= -5 + 4 (-2) \]
   \[= -5 + 4 \cdot 4 \]
   \[= -5 + 16 \]
   \[= 11 \]

40. \[\left( -8 \right)^\circ - 5^\circ \right) \div (-4+1) \]
   \[= (64-25) \div (-3) \]
   \[= 39 \div (-3) \]
   \[= -13 \]
47. \[ \frac{|-23+7|}{5^2 - (-2)^2} = \frac{|-16|}{25 - 9} = \frac{16}{16} = 1 \]

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

50. \[ 15 - \left[10 - (20 - 25)\right] \]
\[ = 15 - \left[10 - (-5)\right] \]
\[ = 15 - \left[10+5\right] \]
\[ = 15 - 15 \]
\[ = 0 \]

# Unit 3 Practice Assessment:

16. 6) \[ -8 - (-12) - |-20| \]
\[ = -8 + 12 - 20 \]
\[ = 4 - 20 \]
\[ = -16 \]

20. 2) \[ -3(-4)+5(-7) = 12 - 35 \]
\[ = -23 \]
20. (b) \[2(-5) - 4(-3)\]

\[= -10 + 12\]

\[= 2\]