**Part A:** Given the numerical expressions, examine which solution was done correctly. Justify your answer.

**Solution A**

$$-7-8+24÷\left(-4\right)\left(-3\right)$$

$$-7-8+(-6)\left(-3\right)$$

$$-7-8+18$$

$$-15+18$$

$$3$$

**Solution B**

$$-7-8+24÷\left(-4\right)\left(-3\right)$$

$$-7-8+24÷12$$

$$-7-8+2$$

$$-15+2$$

$$-13$$

 Which numerical expression is simplified correctly? Justify your answer.

 **Answer:**

**Solution A**

$$-2\left(5-7\right)÷2-(-10)$$

$$-2\left(-2\right)÷2-(-10)$$

$$-2(-1)-(-10)$$

$$2-(-10)$$

$$12$$

**Solution B**

$$-2\left(5-7\right)÷2-(-10)$$

$$-2\left(-2\right)÷2-(-10)$$

$$4÷2-(-10)$$

$$2-(-10)$$

$$12$$

 Which numerical expression is simplified correctly? Justify your answer.

 **Answer:**

**Solution A**

$$3^{3}÷9\left(-3\right)+(-3)^{2}$$

$$27÷9\left(-3\right)+9$$

$$3\left(-3\right)+9$$

$$-9+9$$

$$0$$

**Solution B**

$$3^{3}÷9\left(-3\right)+(-3)^{2}$$

$$27÷9\left(-3\right)+9$$

$$27÷(-27)+9$$

$$-1+9$$

$$8$$

 Which numerical expression is simplified correctly? Justify your answer.

 **Answer:**

**Solution A**

$$-1\left[\left(25-7\right)÷9\right]^{2}-\left(64÷32\right)^{2}$$

$$-1\left[18÷9\right]^{2}-\left(64÷32\right)^{2}$$

$$-1\left[2\right]^{2}-\left(2\right)^{2}$$

$$-1[4]-4$$

$$-1(0)$$

$$0$$

**Solution B**

$$-1\left[\left(25-7\right)÷9\right]^{2}-\left(64÷32\right)^{2}$$

$$-1\left[18÷9\right]^{2}-\left(64÷32\right)^{2}$$

$$-1\left[2\right]^{2}-\left(2\right)^{2}$$

$$-1[4]-4$$

$$-4-4$$

$$-8$$

 Which numerical expression is simplified correctly? Justify your answer.

 **Answer:**

**Part B:** Simplify the following numerical expressions.

|  |  |
| --- | --- |
| 1. $-100-35÷(-5)$
 | 1. $-5+\left(8+2\right)÷\left(-10÷2\right)+9$
 |
| 1. $16×5÷\left(12-7\right)-(-10)$
 | 1. $\left(45÷5\right)÷3\left(12÷3\right)-12$
 |
| 1. $24÷(-2)^{3}+5(-2)$
 | 1. $5\left(2+10÷2\right)-[\left(25÷5\right)+2^{4}-5]$
 |
| 1. $[-2\left(-16÷8\right)+5]^{2}-1$
 | 1. $3\left[6-\left(-4\right)\left(-2\right)\right]+(10÷5)^{2}-2^{4}$
 |
| 1. $100÷10\left[20÷\left(-4\right)\right]-5^{2}(4^{2}÷8)$
 | 1. $\{36+7\left[6-2\left(24÷12\right)+3^{2}\left(2\right)\right]\}÷4$
 |