**Part 1:** The following numerical expressions were evaluated incorrectly. Encircle the error in the solution and provide a short explanation of the mistake found.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | $$\left(10+8\right)÷\left(9-6\right)+6×4$$$$18÷\left(9-6\right)+6×4$$$$18÷3+6×4$$$$18÷9×4$$$$2×4$$$$8$$ | 2. | $$36÷\left(6×2\right)-[\left(21÷3\right)+5]$$$$36÷\left(6×2\right)-[7+5]$$$$36÷\left(6×2\right)-12$$$$6×2-12$$$$12-12$$$$0$$ |
|  |  |  |  |

**Part 2:** Evaluate the following numerical expressions.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | $$\left[5+\left(3×5\right)\right]÷4-(8-3)$$ | 2. | $$2×\left(28÷4\right)-[14÷\left(16-9\right)]$$ |

**Answer Key**

**Part 1:** The following numerical expressions were evaluated incorrectly. Encircle the error in the solution and provide a short explanation of the mistake found.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | $$\left(10+8\right)÷\left(9-6\right)+6×4$$$$18÷\left(9-6\right)+6×4$$$$18÷3+6×4$$$$18÷9×4$$$$2×4$$$$8$$ | 2. | $$36÷\left(6×2\right)-[\left(21÷3\right)+5]$$$$36÷\left(6×2\right)-[7+5]$$$$36÷\left(6×2\right)-12$$$$6×2-12$$$$12-12$$$$0$$ |
|  | Here, 3 and 6 were added first. It didn’t follow the MDAS rule. \*answers may vary |  | Here, the grouping (6 x 2) must be calculated first.\*answers may vary  |

**Part 2:** Evaluate the following numerical expressions.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | $$\left[5+\left(3×5\right)\right]÷4-(8-3)$$$$\left[5+15\right]÷4-(8-3)$$$$20÷4-(8-3)$$$$20÷4-5$$$$5-5$$$$0$$ | 2. | $$2×\left(28÷4\right)-[14÷\left(16-9\right)]$$$$2×7-[14÷\left(16-9\right)]$$$$2×7-[14÷7]$$$$2×7-2$$$$14-2$$$$12$$ |