|  |
| --- |
| **WARM UP:** Each bag contains the **same number** of gold coins. **Determine** how many coins are in each bag. |

**SOLVING THE UNKNOWN ALGEBRAICALLY**

**Determine** how many coins are in the bag.

Let ‘x’ represent **each bag** and each coin will have a value of **one**.





**GOLDEN RULE OF ALGEBRA**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SOLVING ONE-STEP EQUATIONS**

JUST perform the \_\_\_\_\_\_\_\_\_\_

(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) operation.

**Solve** each of the following equations:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Addition** | **Subtraction** | **Multiplication** | **Division** | **Square** |
|  |  |  |  |  |
|  |  |  |  |  |

**SOLVING TWO-STEP EQUATIONS**

Use Reverse Order of Operations

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Solve*** *the following equations****:***

|  |  |  |
| --- | --- | --- |
| **1) Teacher** | **Your Turn** | |
|  | a) | b) |
| **2) Teacher** | **Your Turn** | |
|  | a) | b) |
| **3) Teacher** | **Your Turn** | |
|  | a) | b) 1 |
| **4) Teacher** | **Your Turn** | |
|  | a) | b) 1 |
| **5) Teacher** | **Your Turn** | |
|  | a) | b) |
| **6) Teacher** | **Your Turn** | |
|  | a) | b) |

**PRACTICE**

1. Mr. Forster solved the following equation. Explain, using full sentences, what he did to get each line of his solution.

|  |  |
| --- | --- |
| **Mr. Forster’s Work** | **What He Did** |
|  | *Original Question* |
|  |  |
|  |  |

2. Make up an equation with two operations that has a solution of x = 5.

3. Mike is currently 8 years older than Janet. Mike’s age can be calculated by using the equation below where m represents Mike’s age. Calculate their ages.

**THINKING**

4. A triangle has a perimeter of 240 cm. The three side lengths are x, 2x + 40 and x + 60. What are the side lengths of this triangle?