Name: ..... Class: .....

Solve one-step equations word problems

1. Yesterday, John picked **n oranges** from his father's farm. He took **7** to school today and kept **12** to suck later. Which equation can you use to find the total number of **n oranges** that John picked?

☐ $n + 7 = 12$ ☐ $7n = 12$ ☐ $n - 7 = 12$ ☐ $12n = 7$

2. After the party, Lilian and her **9 friends** went out for pizza. They bought **12 boxes** of pizza and ate. When they had paid for the pizza, Lilian divided the bill evenly amongst themselves. Each person paid **$2.15**.
Which equation can you use to find the **total cost x** of the pizza ?

☐ $\frac{x}{12} = \$2.15$ ☐ $12x = \$2.15$ ☐ $x - 12 = \$2.15$ ☐ $x + 12 = \$2.15$

3. Yesterday, Anita helped her Mum by taking **10 baskets of tomatoes** to the farmer's market. She left **25 baskets** of tomatoes to be sold at home.

i. Which equation can you use to find the total number of **n baskets of tomatoes** Anita's mum had ?

ii. Evaluate this equation to find **n**.

Solution

Name: ..... Class: .....

Solve one-step equations word problems

1. Yesterday, John picked **n oranges** from his father's farm. He took **7** to school today and kept **12** to suck later. Which equation can you use to find the total number of **n oranges** that John picked?

☐ n + 7 = 12 ☐ 7n = 12 ☑ n - 7 = 12 ☐ 12n = 7

2. After the party, Lilian and her **9 friends** went out for pizza. They bought **12 boxes** of pizza and ate. When they had paid for the pizza, Lilian divided the bill evenly amongst themselves. Each person paid **$2.15**.
Which equation can you use to find the **total cost x** of the pizza ?

☑ $\frac{x}{12} = \$2.15$ ☐ 12x = $2.15 ☐ x - 12 = $2.15 ☐ x + 12 = $2.15

3. Yesterday, Anita helped her Mum by taking **10 baskets of tomatoes** to the farmer's market. She left **25 baskets** of tomatoes to be sold at home.

i. Which equation can you use to find the total number of **n baskets of tomatoes** Anita's mum had ?

Find keywords.
Out of the **n baskets** of tomatoes, Anita **took 10 from it** and **left 25 at home**.
This information can be represented by an equation using **Subtraction.**
n - 10 = 25

ii. Evaluate this equation to find **n**.
n - 10 = 25
Add 10 to both sides to solve for n.
n - 10 + 10 = 25 + 10
n + (-10+10) = 35
n = 35