

Name \_\_\_\_\_

Date \_\_\_\_\_

## Integer Word Problems- Guided Lesson Explanation

### Explanation #1

Nelson's house from school = 12 km

Robert's house from school = 3 km

$$12 \text{ km} - 3 \text{ km} = 9 \text{ km}$$

Nelson lives 9 km from Robert's home.

### Explanation #2

According to the question, we have to form an equation. Let's replace those words with an equation. We'll let  $x$  represent the number.

5 times a number increased by 18 =  $5x + 18$

36 more than times 4 times the number =  $4x + 36$

$$5x + 18 = 4x + 36$$

$$5x - 4x = 36 - 18$$

$$x = 18 \quad \text{So, the answer is 18.}$$

### Explanation #3

According to the question, we have to form an equation. Let  $x$  represent the number. Follow the same strategy that we used in number 2.

$$9x + 30 = 140 - x$$

$$10x = 140 - 30$$

$$x = \frac{110}{10}$$

$$x = 11 \quad \text{So, the answer is 11.}$$

