

1.3

Writing a Linear Equation

• Example 1

Translate the sentence to an algebraic equation.

“9 is 5 less than x ”

We obtain:

$$9 = x - 5$$

● ● ● CHECK YOURSELF 1

Translate each sentence to an algebraic equation.

a. 8 more than 3 is x .

b. 7 is 6 less than twice x .

● ● ● CHECK YOURSELF ANSWER

1. **(a)** $3 + 8 = x$; **(b)** $7 = 2x - 6$.

1.3 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

Translate each of the following statements to an equation in the variable x .

1. 3 more than twice x is 7.

2. 5 less than 3 times x is 25.

3. 7 less than 4 times x is 41.

4. 10 more than twice x is 44.

5. 5 more than two-thirds x is 21.

6. 3 less than three-fourths x is 24.

7. 3 times x is 12 more than x .

8. 5 times x is 8 less than x .