**Unit 2: Equations in One Variable**

**Learning Target 3: Write Two-Step Equations**



 **Translate the sentence into an equation.**

 ***Six less than seven times a number is equal to −20.***

**Words**  Six less than seven times a number is equal to −20

**Variable** Let *x* represent the number.

**Equation** 7*n* – 6 = −20



 **Financial Literacy The cost for a certain music plan is $9.99 per year plus $0.25 per song you download. If you paid $113.74 one year, find the number of songs you downloaded. Define a variable. Then write and solve an equation.**

**Words**  $9.99 plus $0.25 per song equals $113.74

**Variable** Let *s* represent the number of songs downloaded.

**Equation** 9.99 + 0.25*s* = 113.74

Write the equation.

Subtraction Property of Equality

Simplify.

Division Property of Equality

Simplify.

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So, you downloaded 415 songs.