

Construct the story of ~~X~~

Expression: $3x+1$ Truth Statement $x=2$

$$\begin{array}{r} 3x+1 \\ 3(2)+1 \\ 6+1 \\ 7 \end{array}$$

- STEPS to simplify Expression
- ① Multiply 3 and 2
 - ② add 1 to the product

when x is 2, solution is 7

Equation when $x=2$, $3x+1=7$

Construct the story of "X"

Equation when $x=\square$, $3x+1=5$

$$3x+1$$

STORY of "X"

- ① multiply x and 3
- ② add 1 to the product

The solution is 5,
when $x=\square$

GOAL: Write the story of x as
if I knew the value of x .

Expression: $-12+4x$ Truth statement:
 $x=5$

$$\begin{aligned} &-12+4x \\ &-12+4(5) \\ &-12+20 \\ &8 \end{aligned}$$

STEPS

- ① Multiply 4 and 5
- ② Subtract 12 from the product

when $x=5$ solution is 8
Equation when $x=5$: $-12+4x=8$

Construct the story of "x"

Equation when $x=\square$, $-12+4x=-4$

$$-12+4x$$

Story of "x"

- ① Multiply 4 and x
- ② Subtract 12 from the product
- ③ The solution is -4, when $x=\square$

Now Try...

Equation when $x = \square$, $-12 - 6x = -15$

Story of x

- ① Multiply (-6) and x
- ② Subtract 12 from product

The solution is -15 ,
when $x = \square$

Equation when $x = \square$, $2(7x - 5) = 3$

Story of x

- ① Multiply 7 and x
- ② Subtract 5 from the product
- ③ Multiply 2 by the difference
- ④ The solution is 3,
when $x = \square$

$$-3(1.5x - 0.5) = 4.5$$

Story of x

①

②

③

④