LESSON MAKER PRO

Equation Story Lab

Turn each equation into a real-life situation.

GRADE 6 · 6.PFA.3.f

6.PFA.3.f "Create a verbal situation in context given a one-step linear equation in one variable."

NAME _____ DATE _____

MATCH THE MATH

A verbal situation must tell what x stands for and describe the operation in the equation. Make sure the number on the other side of the equal sign is the result, total, or amount left in your situation.

WORKED EXAMPLE

Create a verbal situation for x + 13 = 28.

1. Let x represent the number of pages already read.
2. The + 13 means 13 more pages are read.
3. The 28 means the total number of pages read.

Answer: A student has read x pages of a book. After reading 13 more pages, the student has read 28 pages total.

PRACTICE 6 problems

1 Create a verbal situation for x - 7 = 19.

ANSWER _____

2 Create a verbal situation for 5x = 45.

ANSWER _____

3 Create a verbal situation for x / 6 = 8.

ANSWER _____

4 Create a verbal situation for x + 24 = 51.

ANSWER _____

5 Create a verbal situation for x - 18 = 34.

ANSWER _____

6 Create a verbal situation for 9x = 72.

ANSWER _____

APPLY IT Show your work

1 A student wants to describe a gaming situation with the equation 4x = 60. Write a verbal situation that could happen in a game.

WORK SPACE

ANSWER _____

2 A student is planning a club event and wants to use the equation x / 7 = 11. Write a verbal situation that could happen at the event.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Create a verbal situation for x - 26 = 17. Then explain why 26 is subtracted and why 17 is the amount left.

WORK SPACE AND ANSWER

ANSWER KEY

Equation Story Lab

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Create a verbal situation for x - 7 = 19.	**A player has x points in a game. After losing 7 points, the player has 19 points.**
2	Create a verbal situation for 5x = 45.	**Five identical notebooks cost x dollars each. The notebooks cost 45 dollars altogether.**
3	Create a verbal situation for x / 6 = 8.	**A club shares x stickers equally among 6 students. Each student gets 8 stickers.**
4	Create a verbal situation for x + 24 = 51.	**A video has x views. After getting 24 more views, the video has 51 views.**
5	Create a verbal situation for x - 18 = 34.	**A robot has x units of energy. After using 18 units of energy, it has 34 units left.**
6	Create a verbal situation for 9x = 72.	**Nine bags hold x marbles each. There are 72 marbles altogether.**

PART 2 · APPLY IT

1. **A player completes 4 rounds of a game and earns x coins in each round. The player earns 60 coins altogether.** The situation has 4 equal groups of x coins, with 60 coins as the total.
2. **A club divides x prize tickets equally among 7 teams. Each team receives 11 prize tickets.** The unknown total, x, is divided into 7 equal groups of 11 tickets.

CHALLENGE

A fundraiser has x dollars. After spending 26 dollars on supplies, the fundraiser has 17 dollars left. The 26 is subtracted because money was spent, and 17 is the amount remaining.

Accept any realistic situation that defines x and correctly matches the operation and result in the equation. Wording may vary, as long as the quantities and relationships are equivalent.