Linear Equations Word Problems Worksheets

1. Marvin paid an entrance fee of $5 plus an additional $1.25 per game at a local arcade. Altogether, he spent $26.25. Write and solve an equation to determine how many games Marvin played.

2. The sum of four consecutive integers is -26. What are the integers?

3. A book has x pages. How many pages are in the book if Maria read 45 pages of a book on Monday, $\frac{1}{2}$ the book on Tuesday, and the remaining 72 pages on Wednesday

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1. Marvin paid an entrance fee of $5 plus an additional $1.25 per game at a local arcade. Altogether, he spent $26.25. Write and solve an equation to determine how many games Marvin played.

Let x represent the number of games he played.

$$5 + 1.25x = 26.25$$
$$1.25x = 21.25$$
$$x = \frac{21.25}{1.25}$$
$$x = 17$$

Marvin played 17 games.

2. The sum of four consecutive integers is -26. What are the integers?

Let x be the first integer.
$$x + (x + 1) + (x + 2) + (x + 3) = -26$$
$$4x + 6 = -26$$
$$4x = -32$$
$$x = -8$$

The integers are -8, -7, -6, and -5.

3. A book has x pages. How many pages are in the book if Maria read 45 pages of a book on Monday, $\frac{1}{2}$ the book on Tuesday, and the remaining 72 pages on Wednesday

Let x be the number *of pages in the book.*

$$x = 45 + \frac{1}{2}x + 72$$

$$x = 117 + \frac{1}{2}x$$

$$\frac{1}{2}x = 117$$

$$x = 234$$

The book has 234 pages

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