Words and Equations

You can write an algebraic equation for word sentence by reading the sentence as though it were an equation.

Example: The price of a ticket plus \$2.95 for snacks equals \$12.30.

Read the sentence aloud, listening for where you will place the variable.

The only unknown part of the equation is the price of a ticket. Let p represent the price of a ticket.

Read as: The price	plus	\$2.95 equals	\$12.30
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Then p + 2.95 = 12.30

So, the equation is p + 2.95 = 12.30

Example: Eight-year old Lara is one half the age of her sister, Carla.

8 = $\frac{1}{2}$ x c So, the equation is $8 = \frac{1}{2} \times c$

Fahad's parents paid \$145 to rent a game room for his birthday party. The rates for renting the game room were \$65 for the first hour and then \$20 for each additional half hour. For how long did Fahad's parents rent the game room?

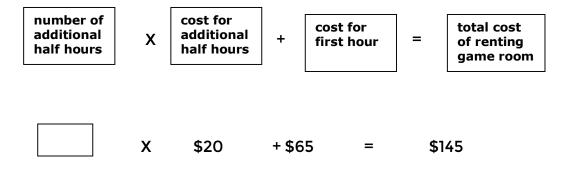
<u>ANALYZE</u> What are you asked to find? What information is given? Is there information you will not use? If so, what?

<u>CHOOSE</u> What strategy will you use? You can use inverse operations and the work backward to solve the problem.



SOLVE How will you solve the problem?

The cost of the renting room was calculated this way:



You can work backward by reversing the operations and the order.

(\$145 - \$65) × \$20 = 4

first hour + additional half hours = total time 1 hour + 4 half hours = 3 hours

So, Fahad's parents rented the game room for 3 hours.

Examples:

A-Write an equation for the word sentence.

1) Two third of a number is 18 _2/3 x = 18

2) 12 fewer than v is 41 <u>v - 12 = 41</u>

3) 4 times a number is 48 <u>4 x n = 48</u>

4) 9 more than t is 32 <u>t + 9 = 32</u>

B- Write a word sentence for each equation.

5) s + 4 = 15 <u>4 more than s is 15</u>

6) 1/6 f = 12 one sixth of a number is 12

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7) 8y = 56 8 times a number is 56

8) q - 5 = 17 <u>5 fewer than 5 is 17</u>

My Real Life

Walid bought a bag for 450 dirhams, a pencil case for 75 dirhams, and 3 similar notebooks. If he spent 615 dirhams, how much does a single notebook cost him?

Step 1: Check what you need to find. \rightarrow the cost of 1 notebook

Step 2: Add the amount of money Walid spent on bag and pencil case. \rightarrow 450 + 75 = 525 dirhams.

Step 3: Subtract the previous amount from the money he spent. \rightarrow 615 - 525 = 90 Dirhams.

Step 4: Divide 90 dirhams by three in order to find how much each notebook costs. \rightarrow 90 ÷ 3 = 30 dirhams.

Walid spends 30 dirhams on each notebook.



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