mathskills4kids

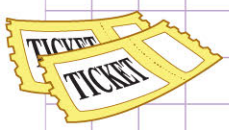
Name: ..... Class: .....

Writing equations from word problems: multiplication and division

1. A tray of cookies has 6 rows. Each of these rows has 11 cookies. Deduce an equation that can be used to find the total number of cookies, **C**, the tray has.

2. Last week, Mrs. Gray spent $15 to buy 5 bags of frozen vegetables. Deduce an equation that can be used to find the cost of each bag of frozen vegetable, **V**.

3. Jerry's teacher has assigned him to be selling tickets for the school play. So far, he has sold 10 VIP tickets and twice as many normal tickets as VIP tickets. Deduce an equation to find the number of normal tickets, **n**, he has sold so far.



Solution

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Writing equations from word problems: multiplication and division

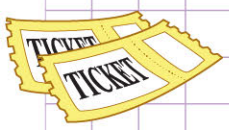
1. A tray of cookies has 6 rows. Each of these rows has 11 cookies. Deduce an equation that can be used to find the total number of cookies, C, the tray has.

Let's first of all try to interpret this question,
If a row has 11 cookies,
Then 6 rows will have « C" cookies
So, let's cross multiply to find the total number of cookies in a tray of cookies: 11 x 6 = C
Therefore, 11 x 6 = C represents the number of cookies, C, in a tray of cookies.

2. Last week, Mrs. Gray spent $15 to buy 5 bags of frozen vegetables. Deduce an equation that can be used to find the cost of each bag of frozen vegetable, V.

Let's try to interpret this question
If 5 bags cost $15,
Then 1 bag will cost V
So, let's cross multiply to find the cost of each bag of frozen vegetable: 1 x $15 = 5 x V
Now, divide both sides by 5 to find V.
1 x $15/5 = 5/5 x V
$15 ÷ 5 = V
Therefore, $15 ÷ 5 = V, represents the cost of each bag of frozen vegetable.

3. Jerry's teacher has assigned him to be selling tickets for the school play. So far, he has sold 10 VIP tickets and twice as many normal tickets as VIP tickets. Deduce an equation to find the number of normal tickets, n, he has sold so far.



Let's try to interpret this question
Number of VIP tickets he has sold = 10
Since he has sold twice as many normal tickets as vip tickets, it means the equation is:
2 x 10 = n
So, 2 x 10 = n represents the number of normal tickets, n, sold so far.