Counting the Cost

Alejandro and Janice are wanting to spend more time together in the Ministry. They talked it over and asked Jehovah for His direction and blessing. After counting the cost they decided that he'll take Fridays off which would cut his hours to 32 per week.

Alejandro had been making $22.85/hr. His employer agreed to the new schedule but would need to decrease Alejandro's hourly pay to $21.00/hr because he'd need to hire someone else to fill in.

The total deductions from his gross pay is 15.4% for taxes, plus $8.93 for health insurance. His employer pays him weekly.

Janice was able to find a part-time job that pays $16.50/hr. She'll be paid every week as well.

1) What was Alejandro's original gross weekly pay?

2) What was his original monthly take-home pay?

3) The amount of his monthly net pay will now be _ _ _ _ _ _ .

4) Janice will need to bring home _ _ _ _ _ _ in order to make up the difference.

5) Write the equation to compute gross amount she'll need to earn in order to bring home that amount.

6) Complete your calculation.

7) Approximately how many hours will Janice need to work each week to ensure they can still pay their living expenses?

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Janice was able to find a part-time job that pays $16.50/hr. She'll be paid every week as well.

1) What was Alejandro's original gross weekly pay?

$22.85 * 40 = $914.00

2) What was his original monthly take-home pay?

Taxes = (0.154 * $914) = $140.76
Total weekly deductions = $140.76 + $8.93 = $149.69
Weekly net pay = $914 - $149.69 =
Monthly net pay = 4 * $764.31 = $3057.24

3) The amount of his monthly net pay will now be _ _ _ _ _ _ .

New gross pay = (32 * $21.00) = $672
Taxes = (0.154 * $672) = $103.49
Total weekly deductions = $112.42
New weekly take-home amount = $672 - $112.42 = $559.58
New monthly net = $2238.32

4) Janice will need to bring home _ _ _ _ _ _ in order to make up the difference.

$3057.24 - $2238.32 = $818.92

5) Write the equation to compute gross amount she'll need to earn in order to bring home that amount.

Gross pay - (15.4% of gross pay) = Net take-home
or x - 0.154x = net

6) Complete your calculation.

(1-.154)x = 818.91
0.846x = $818.92
x = $818.92/0.846
x = $967.99

7) Approximately how many hours will Janice need to work each week to ensure they can still pay their living expenses?

$967.99/$16.50 = $58.67
$58.67/4 = 14.67 hrs (round up for a small cushion amount)
15 hrs