Calculating Interest - Guided Lesson Explanation

Explanation#1

	1	Р	r	t
5%	(0.20x)(0.05x) = 0.01	0.20	0.05	1
7%	(0.30x)(0.07x) = 0.021	0.30	0.07	1
15%	(0.50x)(0.15x) = 0.075	0.50	0.15	1
total	\$1050	x		

Now solve this

$$0.01x + 0.021x + 0.075x = 1050$$

Now solve for the value x

$$x(0.106) = 1050$$

$$x = \frac{1050}{0.106}$$

$$x = $9,905.66$$

Explanation#2

Formula to calculate the simple interest is:-

$$\mathsf{SI} \ = \frac{\mathsf{P} \times \mathsf{R} \times \mathsf{T}}{\mathsf{100}}$$

$$\mathsf{SI} = \frac{53,200 \times 4 \times 2}{100}$$

$$SI = $4,256$$

Total cost = Principal + interest

So, the answer is \$57,456.

Date _____

Explanation#3

Formula to calculate the simple interest is: -

$$\mathsf{SI} \, = \frac{\mathsf{P} \times \mathsf{R} \times \mathsf{T}}{\mathsf{100}}$$

$$\mathsf{SI} = \frac{25,420 \times 5 \times 8}{100 \times 12}$$

$$SI = $847.33$$

So, the answer is \$847.33