Solve each problem.

1) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x kilowatt hours.

Company A		
Total Kilowatt- Hours	Total Cost (\$)	
1236	98.88	
1419	113.52	

Company B y = 0.08x

Find the total cost in dollars of buying 1,018 kilowatt hours of electricity from the cheapest company.

Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A		
Square Feet	Total Price (\$)	
1993	229,195	
1202	138,230	

**Contractor B** y = 118x

Find the total price you'd get from building a 1,168 sq/ft house from the more expensive contractor.

3) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x pounds of sugar.

Company A	
Total Pounds	Total Cost (\$)
10	2.90
13	3.77

Company B y = 0.20x

What is the difference in price per pound between Company A and Company B?

## Solve each problem.

1) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x kilowatt hours.

Company A		
Total Kilowatt- Hours	Total Cost (\$)	
1236	98.88	
1419	113.52	

Company B 
$$y = 0.08x$$

3. **0.09** 

Answers

$$y = 0.08x$$

Find the total cost in dollars of buying 1,018 kilowatt hours of electricity from the cheapest company.

2) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A		
Square Feet	Total Price (\$)	
1993	229,195	
1202	138,230	

**Contractor B** 
$$y = 118x$$

$$y = 115x$$

Find the total price you'd get from building a 1,168 sq/ft house from the more expensive contractor.

3) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x pounds of sugar.

Company A		
Total Pounds	Total Cost (\$)	
10	2.90	
13	3.77	

Company B 
$$y = 0.20x$$

$$y = 0.29x$$

What is the difference in price per pound between Company A and Company B?