



Solve each problem.

**Answers**

- 1) 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 (\$)
15	4.35
20	5.80

**Company B**  
 $y = 0.21x$

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Find the total cost in dollars of buying 15 pounds of sugar from the cheapest company.

- 2) Two companies are selling beef jerky by the pound. The cost of jerky 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 jerky.

**Company A**

Total Pounds	Total Cost (\$)
20	380.00
15	285.00

**Company B**  
 $y = 12.00x$

Find the total cost in dollars of buying 18 pounds of jerky from the more expensive company.

- 3) 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 (\$)
1606	202,356
1335	168,210

**Contractor B**  
 $y = 125x$

What is the difference in the price per square foot between contractor A and contractor B?



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**Company A**

Total Pounds	Total Cost (\$)
15	4.35
20	5.80

**Company B**  
 $y = 0.21x$

$y = 0.29x$

Find the total cost in dollars of buying 15 pounds of sugar from the cheapest company.

- 2) Two companies are selling beef jerky by the pound. The cost of jerky 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 jerky.

**Company A**

Total Pounds	Total Cost (\$)
20	380.00
15	285.00

**Company B**  
 $y = 12.00x$

$y = 19.00x$

Find the total cost in dollars of buying 18 pounds of jerky from the more expensive company.

- 3) 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 (\$)
1606	202,356
1335	168,210

**Contractor B**  
 $y = 125x$

$y = 126x$

What is the difference in the price per square foot between contractor A and contractor B?

Answers

1. 3.15

2. 342

3. 1