

**Solve each problem.****Answers**

- 1) 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 (\$)
1534	173,342
1428	161,364

Contractor B

$$y = 123x$$

1. _____

2. _____

3. _____

Find the total price you'd get from building a 1,351 sq/ft house from the cheapest contractor.

- 2) 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 (\$)
20	5.40
11	2.97

Company B

$$y = 0.22x$$

Find the total cost in dollars of buying 17 pounds of sugar from the more expensive company.

- 3) Two companies are selling boxes of candy. The pieces of candy you get from Company A is represented in the table below. The pieces of candy you get per box from Company B is represented by an equation, with y representing the total number of pieces for x boxes.

Company A

Total Boxes	Total Pieces
10	280
19	532

Company B

$$y = 27x$$

What is the difference in the number of pieces per box between Company A and Company B?



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Company A

Total Boxes	Total Pieces
10	280
19	532

$$y = 28x$$

Company B

$$y = 27x$$

What is the difference in the number of pieces per box between Company A and Company B?

Answers1. **152,663**2. **4.59**3. **1**