



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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**Contractor A**

Square Feet	Total Price (\$)
1534	173,342
1428	161,364

$$y = 113x$$

**Contractor B**

$$y = 123x$$

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

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**Company A**

Total Pounds	Total Cost (\$)
20	5.40
11	2.97

$$y = 0.27x$$

**Company B**

$$y = 0.22x$$

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

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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?

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