



Solve each problem.

**Answers**

- 1) 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
11	330
13	390

**Company B**

$$y = 24x$$

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

Find the total number of pieces you'd get from buying 17 boxes of candy from the company with the fewest pieces per box.

- 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 (\$)
19	4.75
12	3.00

**Company B**

$$y = 0.29x$$

Find the total cost in dollars of buying 19 pounds of sugar 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 (\$)
1993	243,146
1031	125,782

**Contractor B**

$$y = 117x$$

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



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11	330
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**Company B**  
 $y = 24x$

$y = 30x$

Find the total number of pieces you'd get from buying 17 boxes of candy from the company with the fewest pieces per box.

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19	4.75
12	3.00

**Company B**  
 $y = 0.29x$

$y = 0.25x$

Find the total cost in dollars of buying 19 pounds of sugar 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 (\$)
1993	243,146
1031	125,782

**Contractor B**  
 $y = 117x$

$y = 122x$

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

Answers1. 4082. 5.513. 5