



Solve each problem.

- 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
20	600

**Company B**

$$y = 27x$$

Find the total number of pieces you'd get from buying 13 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 (\$)
18	4.32
15	3.60

**Company B**

$$y = 0.30x$$

Find the total cost in dollars of buying 11 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 (\$)
1356	166,788
1069	131,487

**Contractor B**

$$y = 113x$$

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

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_



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**Company A**

Total Boxes	Total Pieces
11	330
20	600

$$y = 30x$$

**Company B**

$$y = 27x$$

Find the total number of pieces you'd get from buying 13 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 (\$)
18	4.32
15	3.60

$$y = 0.24x$$

**Company B**

$$y = 0.30x$$

Find the total cost in dollars of buying 11 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 (\$)
1356	166,788
1069	131,487

$$y = 123x$$

**Contractor B**

$$y = 113x$$

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

Answers

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