



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
10	200
14	280

Company B

$$y = 26x$$

1. _____

2. _____

3. _____

Find the total number of pieces you'd get from buying 15 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 (\$)
13	3.64
12	3.36

Company B

$$y = 0.21x$$

Find the total cost in dollars of buying 20 pounds of sugar from the more expensive company.

- 3) Two companies are selling electricity by Kilo-watt hour. The cost of electricity 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 kilowatt hours.

Company A

Total Kilowatt-Hours	Total Cost (\$)
1134	102.06
1176	105.84

Company B

$$y = 0.08x$$

What is the difference in price per kilowatt hour between Company A and Company B?



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Company A

Total Boxes	Total Pieces
10	200
14	280

$$y = 20x$$

Company B

$$y = 26x$$

Find the total number of pieces you'd get from buying 15 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 (\$)
13	3.64
12	3.36

$$y = 0.28x$$

Company B

$$y = 0.21x$$

Find the total cost in dollars of buying 20 pounds of sugar from the more expensive company.

- 3) Two companies are selling electricity by Kilo-watt hour. The cost of electricity 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 kilowatt hours.

Company A

Total Kilowatt-Hours	Total Cost (\$)
1134	102.06
1176	105.84

$$y = 0.09x$$

Company B

$$y = 0.08x$$

What is the difference in price per kilowatt hour between Company A and Company B?

Answers

1. 300

2. 5.6

3. 0.01