



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
12	18
360	540

**Company B**

$$y = 28x$$

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

Find the total number of pieces you'd get from buying 18 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 (\$)
15	18
3.75	4.50

**Company B**

$$y = 0.23x$$

Find the total cost in dollars of buying 12 pounds of sugar from the more expensive company.

- 3) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the pounds of metal recycled.

**Junk Yard A**

Pounds	Total Price (\$)
1655	1668
382,305.00	385,308.00

**Junk Yard B**

$$y = 178.00x$$

What is the difference in the price per pound between junk yard A and junk yard B?



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**Company A**

Total Boxes	Total Pieces
12	18
360	540

**Company B**  
 $y = 28x$

$y = 30x$

Find the total number of pieces you'd get from buying 18 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 (\$)
15	18
3.75	4.50

**Company B**  
 $y = 0.23x$

$y = 0.25x$

Find the total cost in dollars of buying 12 pounds of sugar from the more expensive company.

- 3) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the pounds of metal recycled.

**Junk Yard A**

Pounds	Total Price (\$)
1655	1668
382,305.00	385,308.00

**Junk Yard B**  
 $y = 178.00x$

$y = 231.00x$

What is the difference in the price per pound between junk yard A and junk yard B?

Answers

1. 504
2. 3
3. 53