

**Solve each problem.****Answers**

- 1) A school had to buy 56 new science books and it ended up costing \$4,940.32 total. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the number of books( $b$ ) purchased.
- 2) A candy company made \$372.30 for every 85 boxes of candy they sold. Write an equation that can be used to express the relationship between the total amount earned( $t$ ) and the boxes of candy they sold( $b$ ).
- 3) You can buy 10 pieces of chicken for \$26.50. Write an equation that can be used to express the relationship between the total price( $t$ ) and the pieces of chicken( $c$ ) you buy.
- 4) In a game defeating 57 enemies earns you 22,800.00 total points. Write an equation that can be used to express the relationship between the total points earned ( $t$ ) and the number of enemies( $e$ ) you defeat.
- 5) Using a water hose for 56 minutes used up 69.44 total gallons of water. Write an equation that can be used to express the relationship between the total gallons used ( $t$ ) and the minutes( $m$ ) used.
- 6) Bianca traveled 22.20 kilometers in 60 minutes. Write an equation that can be used to express the relationship between the total kilometers traveled( $t$ ) and the minutes( $m$ ) it took.
- 7) It cost \$952.71 for 33 pounds of beef jerky. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the pounds of beef jerky( $p$ ) purchased.
- 8) A school fundraiser sold 25 candy bars and earned 92.50 dollars total. Write an equation that can be used to express the relationship between the total amount earned( $t$ ) and each candy bar sold( $b$ ).
- 9) A company used 420.00 lemons to make 60 bottles of lemonade. Write an equation that can be used to express the relationship between the total number of lemons needed ( $t$ ) for each bottle of lemonade ( $b$ ).
- 10) Using 25 boxes of nails a carpenter was able to finish 100.00 bird houses. Write an equation that can be used to express the relationship between the total number of birdhouses completed( $t$ ) and the boxes of nails( $b$ ) used.

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**Answers**

1.  $t = b88.22$
2.  $t = b4.38$
3.  $t = c2.65$
4.  $t = e400.00$
5.  $t = m1.24$
6.  $t = m0.37$
7.  $t = p28.87$
8.  $t = b3.70$
9.  $t = b7.00$
10.  $t = b4.00$