

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

- 1) 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.
- 2) At a carnival it costs \$206.46 for 74 tickets. Write an equation that can be used to express the relationship between the total cost ( $t$ ) and the number of tickets( $n$ ) you buy.
- 3) A school fundraiser sold 73 candy bars and earned 89.06 dollars total. Write an equation that can be used to express the relationship between the total amount earned( $t$ ) and each candy bar sold( $b$ ).
- 4) A company used 485.00 lemons to make 97 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 ( $b$ ).
- 5) Carol traveled 18.48 kilometers in 56 minutes. Write an equation that can be used to express the relationship between the total kilometers traveled( $t$ ) and the minutes( $m$ ) it took.
- 6) The combined weight of 20 concrete blocks is 139.80 kilograms. Write an equation that can be used to express the relationship between the total weight( $t$ ) and the number of concrete blocks( $b$ ) you have.
- 7) In a game defeating 49 enemies earns you 22,050.00 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.
- 8) A candy company made \$369.36 for every 81 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( $b$ ).
- 9) A phone store earned \$204.60 after they sold 55 phone cases. Write an equation that can be used to express the relationship between the total money earned ( $t$ ) and the number of cases( $c$ ) sold.
- 10) Using a water hose for 41 minutes used up 76.67 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.

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**Answers**

- $t = b4.00$
- $t = n2.79$
- $t = b1.22$
- $t = b5.00$
- $t = m0.33$
- $t = b6.99$
- $t = e450.00$
- $t = b4.56$
- $t = c3.72$
- $t = m1.87$