

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

- 1) Using a water hose for 80 minutes used up 107.20 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.
- 2) A school had to buy 15 new science books and it ended up costing \$1,235.25 total. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the number of books( $b$ ) purchased.
- 3) You can buy 21 pieces of chicken for \$41.37. 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) Carol traveled 3.60 kilometers in 9 minutes. Write an equation that can be used to express the relationship between the total kilometers traveled( $t$ ) and the minutes( $m$ ) it took.
- 5) A phone store earned \$225.15 after they sold 95 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.
- 6) It cost \$1,851.55 for 95 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.
- 7) Using 99 boxes of nails a carpenter was able to finish 693.00 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.
- 8) The combined weight of 7 concrete blocks is 50.96 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.
- 9) In a game defeating 53 enemies earns you 13,250.00 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.
- 10) 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 ( $b$ ).

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**Answers**

1.  $t = m1.34$

2.  $t = b82.35$

3.  $t = c1.97$

4.  $t = m0.40$

5.  $t = c2.37$

6.  $t = p19.49$

7.  $t = b7.00$

8.  $t = b7.28$

9.  $t = e250.00$

10.  $t = b7.00$