

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

- 1) A company used 420.00 lemons to make 84 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 ( $b$ ).
- 2) A candy company made \$120.00 for every 32 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) The combined weight of 26 concrete blocks is 406.64 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.
- 4) You can buy 23 pieces of chicken for \$40.48. Write an equation that can be used to express the relationship between the total price( $t$ ) and the pieces of chicken( $c$ ) you buy.
- 5) Robin traveled 66.50 kilometers in 50 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) At a carnival it costs \$57.35 for 31 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.
- 7) In a game defeating 3 enemies earns you 150.00 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 school had to buy 65 new science books and it ended up costing \$2,894.45 total. Write an equation that can be used to express the relationship between the total cost( $t$ ) and the number of books( $b$ ) purchased.
- 9) Using 99 boxes of nails a carpenter was able to finish 198.00 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.
- 10) A phone store earned \$138.06 after they sold 59 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.

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**Answers**

1.  $t = b5.00$
2.  $t = b3.75$
3.  $t = b15.64$
4.  $t = c1.76$
5.  $t = m1.33$
6.  $t = n1.85$
7.  $t = e50.00$
8.  $t = b44.53$
9.  $t = b2.00$
10.  $t = c2.34$