Expressing Equations

Name:

Solve each problem.

1) Using 63 boxes of nails a carpenter was able to finish 189 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) A chef bought 92 bags of oranges at the supermarket and it cost her $207.92. Write an equation that can be used to express the relationship between the total cost(t) and the number of bags of oranges(b) purchased.

3) It cost $981.96 for 84 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.

4) A school had to buy 69 new science books and it ended up costing $1,834.71 total. Write an equation that can be used to express the relationship between the total cost(t) and the number of books(b) purchased.

5) A company used 360 lemons to make 45 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).

6) You can buy 20 pieces of chicken for $44.20. Write an equation that can be used to express the relationship between the total price(t) and the pieces of chicken(c) you buy.

7) The combined weight of 3 concrete blocks is 32.16 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.

8) GVAR traveled 20.40 kilometers in 24 minutes. Write an equation that can be used to express the relationship between the total kilometers traveled(t) and the minutes(m) it took.

9) A phone store earned $179.55 after they sold 57 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) At a carnival it costs $162.24 for 48 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.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

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Answers

1. **t = b3**
2. **t = b2.26**
3. **t = p11.69**
4. **t = b26.59**
5. **t = b8**
6. **t = c2.21**
7. **t = b10.72**
8. **t = m0.85**
9. **t = c3.15**
10. **t = n3.38**

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