# Expressing Equations

Name:

**Solve each problem.**

**1)** Using 27 boxes of nails a carpenter was able to finish 216 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 company used 174 lemons to make 29 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).

**3)** The combined weight of 17 concrete blocks is 252.96 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.

**4)** At a carnival it costs $151.00 for 50 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.

**5)** A school had to buy 90 new science books and it ended up costing $7,977.60 total. Write an equation that can be used to express the relationship between the total cost(t) and the number of books(b) purchased.

**6)** It cost $593.34 for 58 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)** A chef bought 71 bags of oranges at the supermarket and it cost her $90.88. 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.

**8)** Isabel traveled 10.12 kilometers in 22 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 school fundraiser sold 89 candy bars and earned 172.66 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).

**10)** A candy company made $5.92 for every 2 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).

**Answers**

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



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

Expressing Equations Name: **Answer Key**

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**Answers**

1. t = b8
2. t = b6
3. t = b14.88
4. t = n3.02
5. t = b88.64
6. t = p10.23
7. t = b1.28
8. t = m0.46
9. t = b1.94
10. t = b2.96



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