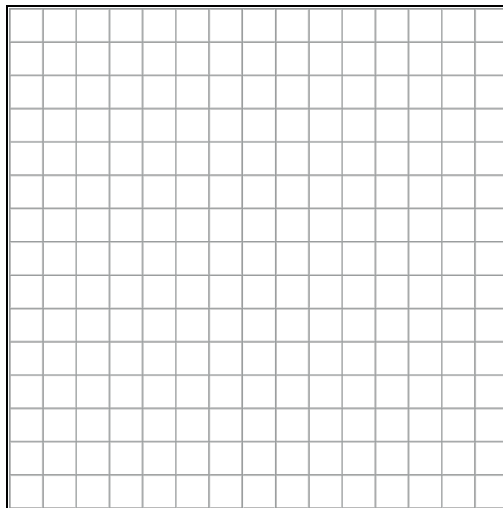# PROBLEM SOLVED
MAKING SENSE OF MATHEMATICS

The PTA is raising money by hosting a dodge ball tournament. It costs each team $50.00 to register to compete in the tournament and $4.50 for each spectator to watch the tournament.

1. Create a table and a graph to show the income the PTA will make from team registration fees.

2. Write an equation that relates the number of teams (*t*) to the income from registration fees (*R*). Explain your equation.
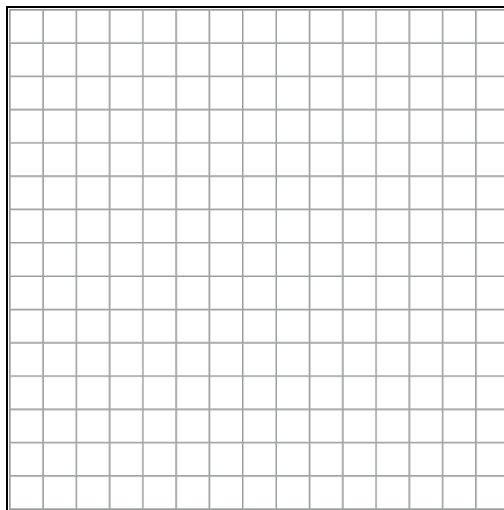
3. How can you tell that this is a proportional relationship by looking at your graph?

MakingSense

4. Create a table and a graph to show the income the PTA will make from door receipts.

5. Write an equation that relates the number of spectators (s) to the income from door receipts (D). Explain your equation.

6. How can you tell that this is a proportional relationship by looking at your table?

PROBLEM SOLVED

MAKING SENSE OF MATHEMATICS

The PTA dodge ball tournament expenses include $100 for team trophies and $1.25 for each player's participation medal.

7. Complete the following table and create a graph to show the total amount of dodge ball tournament expenses.

Number of Players	Total Expense
0	
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	

8. Write an equation that relates the number of players (p) to the total amount of expenses (E). Explain your equation.

9. Is this a proportional relationship? Explain your reasoning.

MakingSense