42. **Think About a Plan** Each morning, a deli worker has to make several pies and peel a bucket of potatoes. On Monday, it took the worker 2 h to make the pies and an average of 1.5 min to peel each potato. On Tuesday, the worker finished the work in the same amount of time, but it took 2.5 h to make the pies and an average of 1 min to peel each potato. About how many potatoes are in a bucket?
   - What quantities do you know and how are they related to each other?
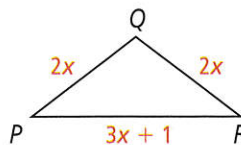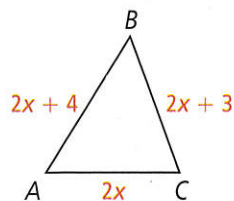   - How can you use the known and unknown quantities to write an equation for this situation?

43. **Error Analysis** Describe and correct the error in finding the solution of the equation $2x = 6x$.

$$2x = 6x$$
$$\frac{2x}{x} = \frac{6x}{x}$$
$$2 \neq 6$$
The equation has no solution.

44. **Skiing** A skier is trying to decide whether or not to buy a season ski pass. A daily pass costs $67. A season ski pass costs $350. The skier would have to rent skis with either pass for $25 per day. How many days would the skier have to go skiing in order to make the season pass less expensive than daily passes?

45. **Health Clubs** One health club charges a $50 sign-up fee and $65 per month. Another club charges a $90 sign-up fee and $45 per month. For what number of months is the cost of the clubs equal?

46. **Geometry** The perimeters of the triangles shown are equal. Find the side lengths of each triangle.

47. **Business** A small juice company spends $1200 per day on business expenses plus $1.10 per bottle of juice they make. They charge $2.50 for each bottle of juice they produce. How many bottles of juice must the company sell in one day in order to equal its daily costs?

48. **Spreadsheet** You set up a spreadsheet to solve $7(x + 1) = 3(x - 1)$.
   a. Does your spreadsheet show the solution of the equation?
   b. Between which two values of x is the solution of the equation? How do you know?
   c. For what spreadsheet values of x is $7(x + 1)$ less than $3(x - 1)$?

	A	B	C
1	x	$7(x + 1)$	$3(x - 1)$
2	-5	-28	-18
3	-3	-14	-12
4	-1	0	-6
5	1	14	0
6	3	28	6