$\left.\begin{array}{c|ll}\text { Scene } & \text { Full Transcript } \\ \hline 1 & \text { Skylar: } & \begin{array}{l}\text { He shoot, he scores! The crowd goes wild! Hey, Skylar here. Today l'm at the } \\ \text { ice arena waiting to watch the hockey team practice. Their practices are } \\ \text { intense, and fun to watch. }\end{array} \\ \text { My buddy Adam is the starting goalie, and he's got a bit of problem. He's got } \\ \text { to buy a new hockey stick before the first game of the season, which is just } \\ \text { four weeks away. He's struggling to save up enough money each week to } \\ \text { meet his goal. } \\ \text { By using models and algebra, we can help Adam set up his budget and get } \\ \text { another problem solved! }\end{array}\right]$

So again, Adam wants to buy a forty-four dollar stick. He has eight dollars saved, and he wants to know how much money he needs to save in each of the next four weeks.

Our dynamic model for this problem, is a balance. On the right side, we'll place forty-four dollars, the cost of the stick. On the left side of the balance, we'll place the eight dollars, Adam has already saved as well as four money bags, one for each week.

We need to find how much money Adam needs to save each week.
Both sides of the balance have equal amounts. Eight dollars, plus the amount Adam will save in the next four weeks, forty-four dollars.

To find how much is in the bags, we first subtract the eight dollars Adam has saved from both sides of the balance.

Forty-four minus eight is thirty-six. Adam needs to save an additional thirty-six dollars to buy the hockey stick. Lets figure out how much he needs to save each week. One way to figure this out, is to determine how much is in one of the four bags. Lets divide the thirty-six dollars by four, which equals nine. That means that nine dollars needs to be saved every week!

| 4 | Skylar:Nine dollars a week? That's it? Cut out a movie a week and you could easily <br> save that. <br> Why don't we go back and find the solution to what we just did, algebraically. |
| :---: | :--- | :--- |
| 5 | Voice- <br> Over <br> Skylar:Here's the algebraic equation. 4d + 8 = 44. "D" is the number of dollars to be <br> saved each week. <br> First, subtract the eight dollars he already has from both sides. That leaves <br> four, the number of weeks, times d equals thirty-six. Then we need to find the <br> value of d. So, we multiply each side of the equation by one fourth, or, you can <br> divide each side by four. Either way, you get the same answer, d=9. |
| 7 | Skylar:Today, we used models and algebra to help Adam save to get his new <br> equipment. You can use the same process to solve all sorts of problems, and <br> to check your work. Problem Solved. |

