Rainbow Robots Inc. was putting on a big demonstration. Everyone came to watch the colorful robots wash the windows at the Miller Building. First the big red robot washed one half of all the windows in the building. Then the smaller green robot washed two thirds of the windows that were left. Next the blue robot washed one half of the windows that were left. To the cheers of everyone watching, the tiny yellow robot washed the last 10 windows. How many windows did the Rainbow Robots wash altogether?

**FIND OUT**
- What is the question you have to answer?
- What are the Rainbow Robots doing?
- What do you know about the number of windows that the red robot washed?
- What do you know about the number of windows washed by the green robot?
- What do you know about the number of windows washed by the blue robot?
- How many windows did the yellow robot wash?

**CHOOSE A STRATEGY**
- The most important piece of information you have is at the end of the problem; the 10 windows washed by the yellow robot. You will need to work backwards, using this information.

**SOLVE IT**
- Begin with the last robot that washed windows. How many windows did the yellow robot wash?
- Now work backwards to the blue robot. If this robot washed one half of the windows that were left, and after the robot is done there are 10 windows left, then how many windows did the blue robot wash?
- Work backwards again to the green robot. Again, if you figure out all the windows that are left when this robot is through, then how many windows did the green robot wash?
- Work backwards to the first robot, the red robot. How many windows did the red robot wash?
- How many windows did the Rainbow Robots wash altogether?

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**LOOK BACK**
- Read the problem again. Look at the information given and the main question. Review your work. Is your answer reasonable?
Mrs. Ridingcap's daughter, whose real name was Colleen, set out for Grandma's house again. This time she was delivering jams and jellies. First she stopped to see Mrs. Parsley, who took in Grandma's mail while Grandma was at the hospital recovering from the wolf. Colleen gave Mrs. Parsley one third of the jars in her basket. Then Colleen set out again, and suddenly the wolf jumped out from behind a bush and grabbed one half of the jars in Colleen's basket. When the wolf ran off, Colleen went on and gave Mr. Woodsman two thirds of what was left in her basket. After thanking him for getting Grandma out of the wolf, Colleen started off for Grandma's house. Colleen had 6 jars of jams and jellies left for Grandma. How many jars did Colleen leave home with?

**FIND OUT**
- What is the question you have to answer?
- What is Colleen doing?
- What do you know about the number of jars that Colleen gives to Mrs. Parsley?
- What do you know about the number of jars that the wolf steals?
- What do you know about the number of jars that Colleen gives to Mr. Woodsman?
- How many jars does Colleen give to Grandma?

**CHOOSE A STRATEGY**
- Where in the problem is specific information given?
- If you begin with this information, then what do you need to do?

**SOLVE IT**
- Begin with the one number that you have, the jars that Colleen gives to Grandma. How many is that?
- If you work backwards, who is the person before Grandma that Colleen gives jars to? If she gives him two thirds of what is left and after she gives him the jars there are 6 left for Grandma, then how many does she give Mr. Woodsman?
- Work backwards again, who steals jars and how many?
- Work backwards to the first person that Colleen gives jars to. How many did Colleen give away first?
- How many jars did Colleen leave home with?