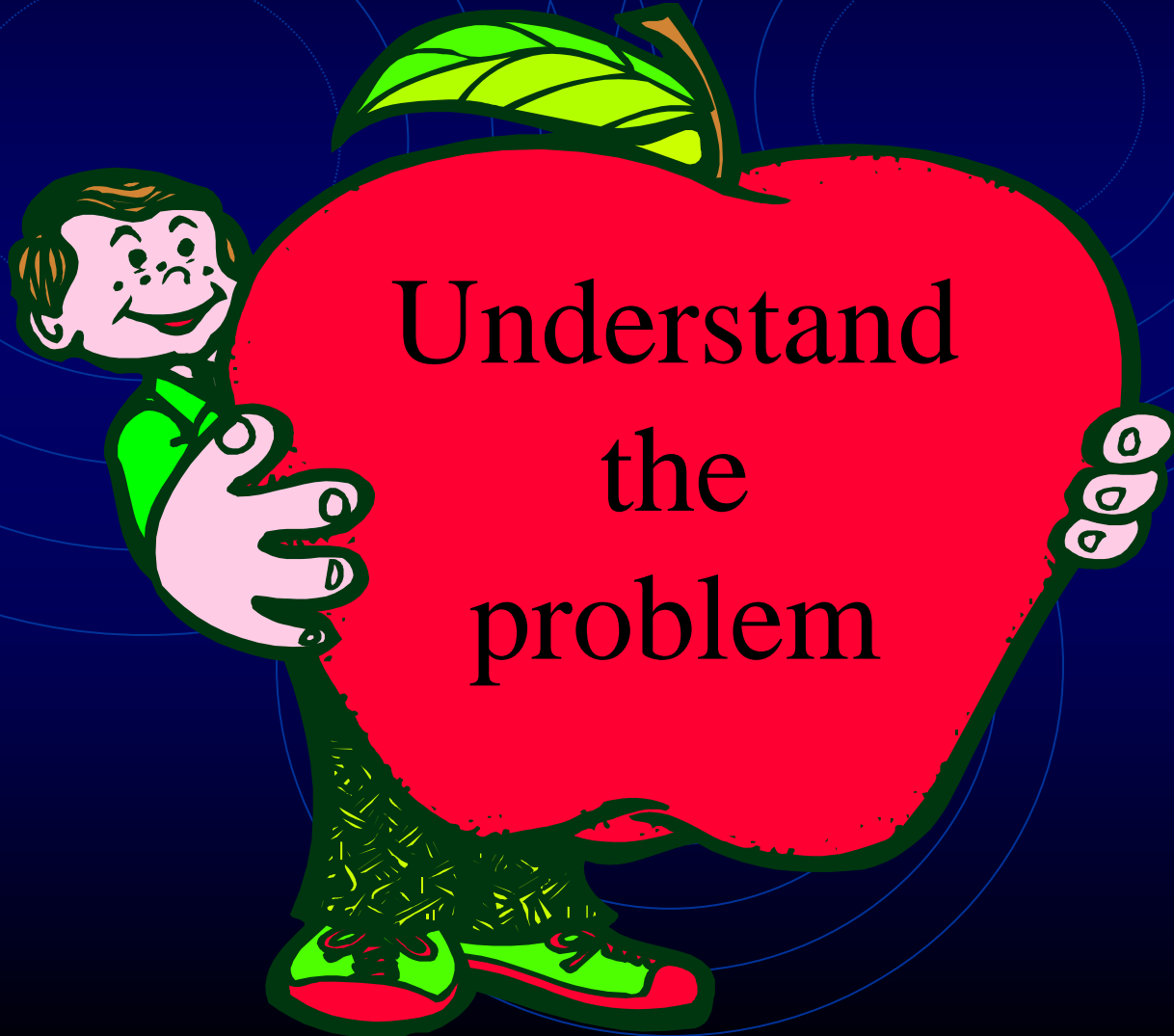


The background is a solid dark blue. It features several sets of concentric circles in a lighter blue color. Additionally, there are dashed lines in the same lighter blue color that intersect the circles, creating a geometric pattern.

Problem Solving Part 2

by Monica Yuskaitis

Problem Solving is easy if you
follow these steps



Step 1 – Understand the problem

- Read the problem carefully.
- Find the important information.
- Write down the numbers.
- Identify what the problem wants you to solve.
- Ask if your answer is going to be a larger or smaller number compared to what you already know.

Step 1 - Understand the Problem

Read the problem carefully.

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

Step 1 - Understand the Problem

Find the important information.

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

Step 1 - Understand the Problem

Write down the numbers.

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

Total = 31 1st week = 14

Step 1 - Understand the Problem

Identify what the problem wants you to solve.

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

$$\begin{array}{lcl} \text{Total} & = & 31 \\ \text{1st week} & = & 14 \\ \text{2nd week} & = & ? \end{array}$$

Step 1 - Understand the Problem

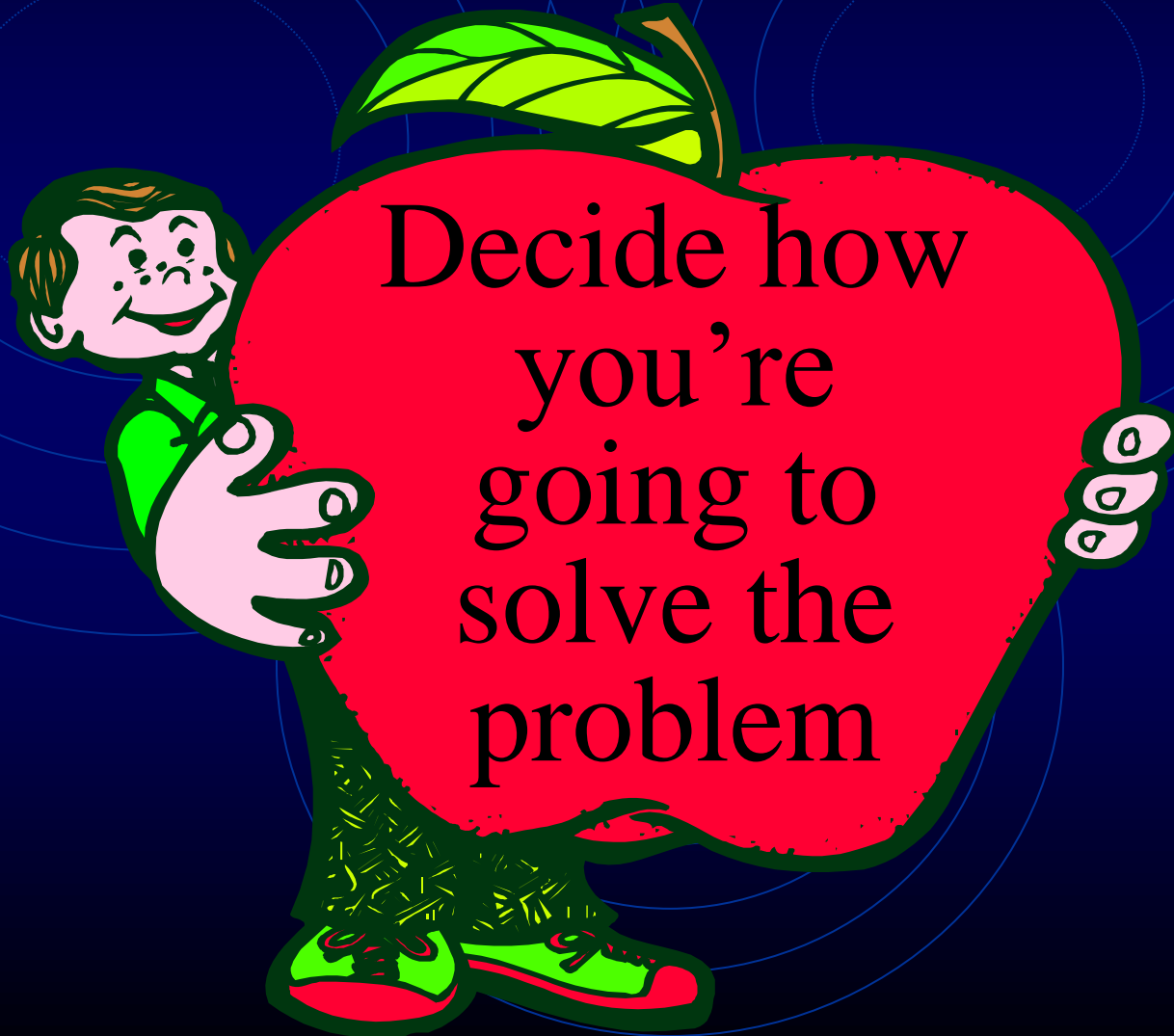
Ask if your answer is going to be a larger or smaller number compared to what you already know.

Total = 31 1st week = 14

2nd week = ?

It will be smaller than the total but may or may not be smaller than the first week.

Problem Solving is easy if you
follow these steps



Step 2 - Decide how you're going to solve the problem

Choose a method

Use a graph

Write an equation

Find a pattern

Use reasoning

Make a table

Use formulas

Make a list

Work backwards

Draw a picture

Act it out

Step 2 - Decide how you're going
to solve the problem
Write your equation

Total = 31 1st week = 14
2nd week = ?

Since I know both weeks total 31 I
write

$$14 + s = 31$$

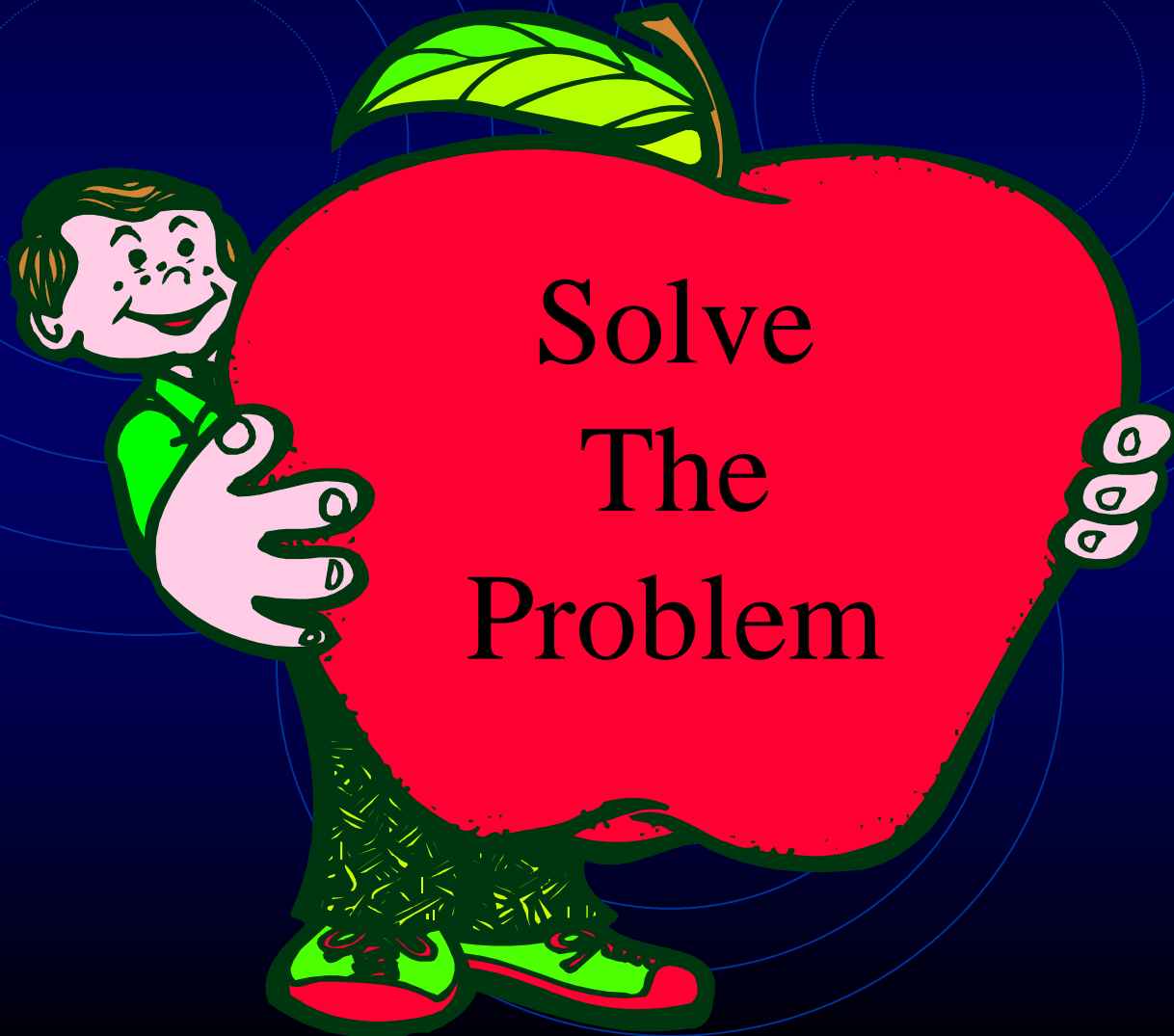
Step 2 - Decide how you're going
to solve the problem
Write your equation

Total = 31 1st week = 14
2nd week = ?

I can use the inverse operation to solve
for s

$$14 + s = 31 \qquad 31 - 14 = s$$

Problem Solving is easy if you
follow these steps



Step 3 - Solve the problem

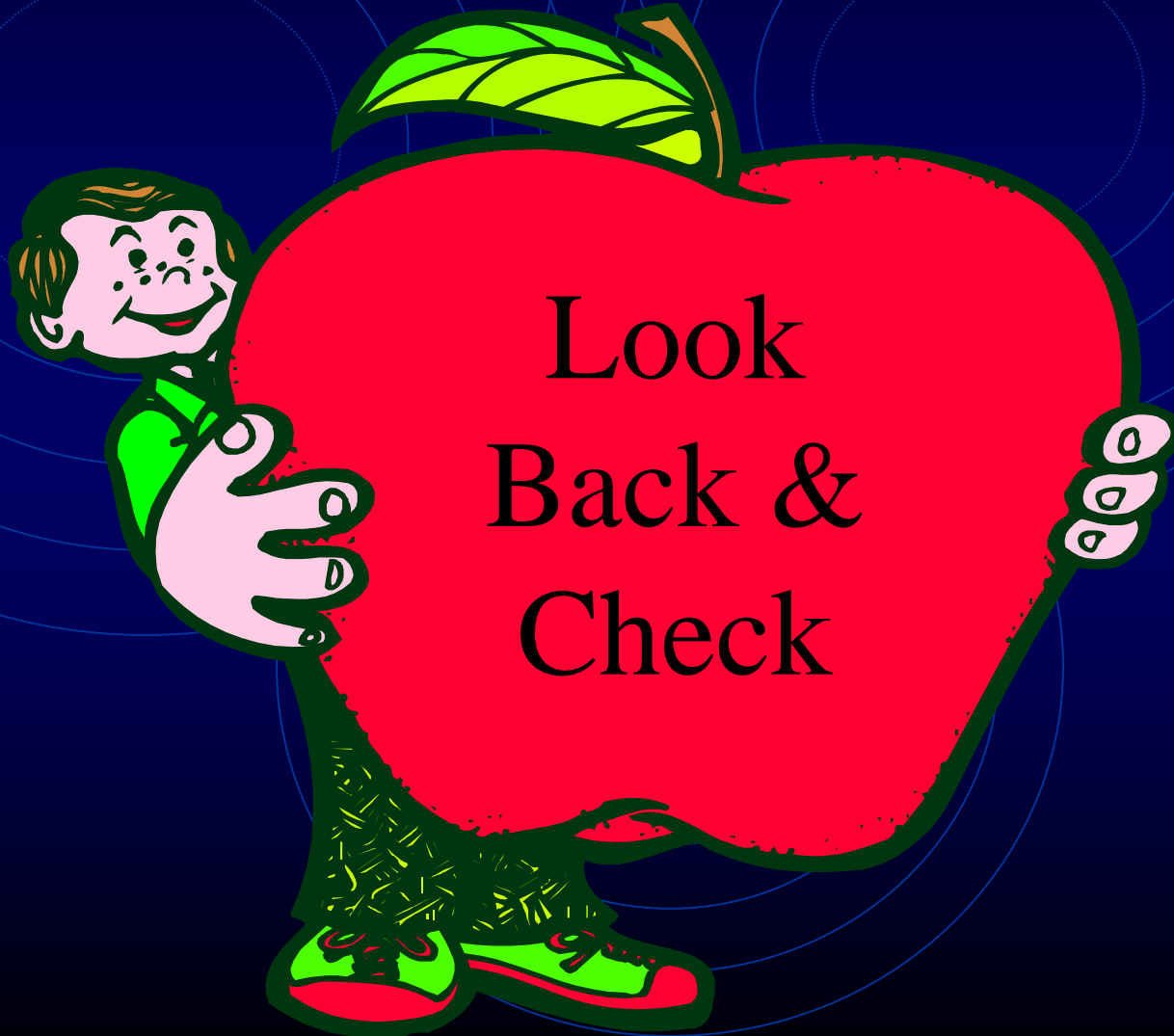
Total = 31

1st week = 14

2nd week = ?

$$\begin{array}{r} 2 \\ \cancel{31} \\ - 14 \\ \hline 17 \end{array}$$

Problem Solving is easy if you
follow these steps



Step 4 - Look Back & Check

Reread the problem

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

Total = 31 1st week = 14

Step 4 - Look Back & Check

Substitute your new number

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

$$\text{Total} = 31 \quad \text{1st week} = 14$$

$$\text{2nd week} = 17$$

Step 4 - Look Back & Check

Substitute your new number

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

$$14 + \underline{17} = 31$$

Step 4 - Look Back & Check

Did your new number work?

- Luis earned 14 Accelerated Reading points the first week of November. At the end of the following week he had a total of 31 points. How many points did he earn the second week?

$$14 + \underline{17} = 31 \quad \text{Yes!}$$

Write an equation to solve this problem.

- Jaylynn had \$84.75 in her savings account. She made a deposit. Her new balance was \$107.03. How much was her deposit?

$$\$84.75 + d = \$107.03$$

Inverse operation

$$\$107.03 - \$84.75 = d$$

Write an equation to solve this problem.

- Anthony has twice as many pokemon cards as Joshua. If Anthony has 124 cards, how many does Joshua have?

$$2 \times d = 124 \quad 2d = 124$$

$$\text{inverse operation} \quad d = 124/2$$

Write an equation to solve this problem.

- Vicki baked 90 cookies . If there are 15 cookies in each batch. How many batches did she bake?

$$15 \times b = 90 \qquad 15b = 90$$

$$\text{inverse operation} \qquad b = 90/15$$

Write an equation to solve this problem.

- Navneet has 3 times as many CD's as Arlene. If Navneet has 36 CD's, how many does Arlene have?

$$3 \times c = 36 \qquad 3c = 36$$

inverse operation $c = 36/3$

Write an equation to solve this problem.

- A square has a perimeter of 48 inches. What is the length of each side of the square.

$$4 \times s = 48 \qquad 4s = 48$$

inverse operation $s = 48/4$

Write an equation to solve this problem.

- One year the city ambulance responded to emergencies on 293 days. How many days were there no emergencies?

$$293 + d = 365$$

inverse operation $d = 365 - 293$