

Problem Solving Tip:
Throw out what you
don't need



Essential Information:
Information you NEED

Non-essential Information:
Information you DON'T
NEED

Information
you don't need

Throw out the
information that you
don't need!



Our Problem

Jake and Max are twins. They just turned 6. The toy store is 2 miles from their house. Their mom took them to the toy store for their birthday. She told each boy to pick out a toy. Jake picked a large rocket. Jake's rocket cost \$17.60. Max picked a smaller rocket. Max's rocket cost \$11.99. How much more expensive was Jake's rocket than Max's rocket?



Our Problem

What should we do first?



Throw out the information you don't need:

- Jake and Max are twins.
- They just turned 6.
- The toy store is 2 miles from their house.

Twins



2 miles



Keep **throwing out** non-essential information:

- Their mom took them to the toy store for their birthday.
- Jake and Max's mom told each of them to pick out a toy.
- The size of Jake and Max's rockets



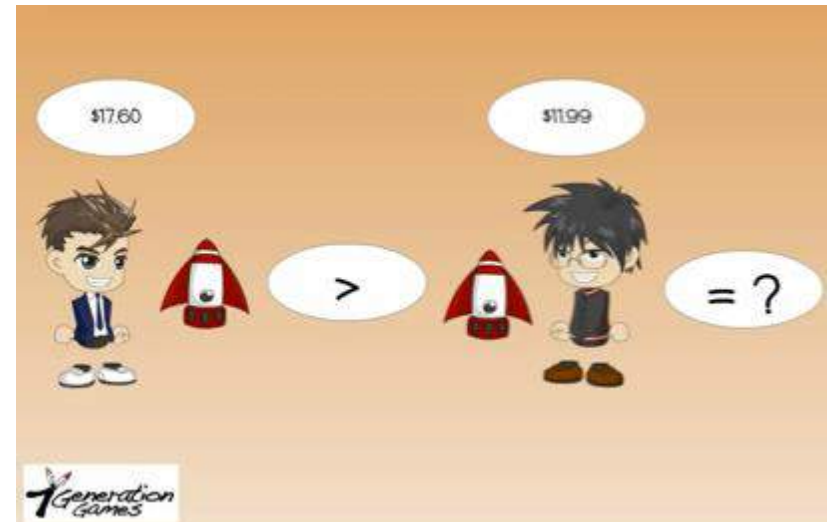
Our Problem

Keep essential information
related to the math
problem.



Essential information:

- The **cost** of both Jake and Max's rockets
- The sentence asking, "How much more expensive was Jake's rocket than Max's rocket?" ← The problem of our problem



We took out all non-essential information from our problem.
We are left with this:

~~Jake and Max are twins. They just turned 6. The toy store is 2 miles from their house. Their mom took them to the toy store for their birthday. She told each boy to pick out a toy. Jake picked a large rocket. Jake's rocket cost \$17.60. Max picked a smaller rocket. Max's rocket cost \$11.99. How much more expensive was Jake's rocket than Max's rocket?~~



A simpler version of our problem:

Jake's rocket cost \$17.60. Max's rocket cost \$11.99. How much more expensive was Jake's rocket than Max's rocket?



The answer to our problem:



\$17.60



\$11.99



\$5.61

