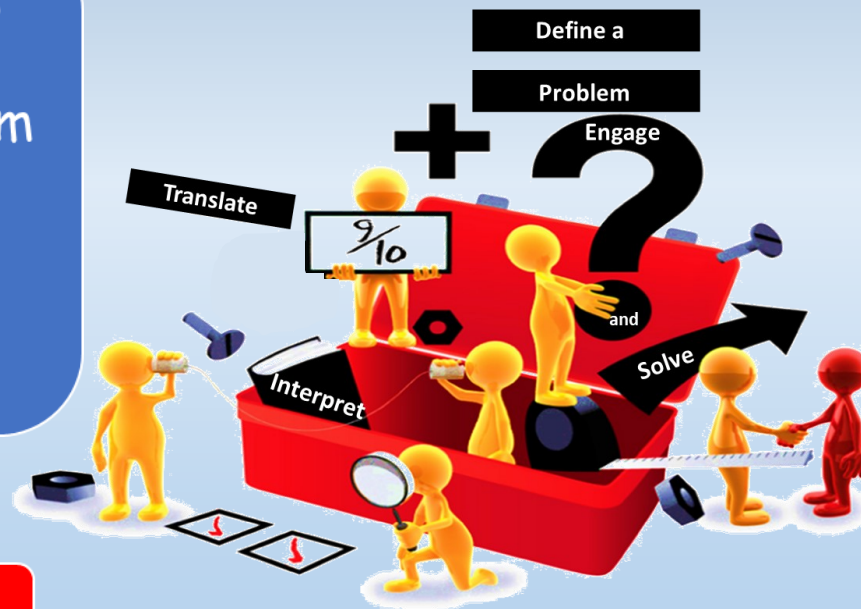


# Problem-Solving Toolkit

## Define a problem

What do I want to know? What do I already know? Form a conjecture, specialise/reduce, restrict/extend, stress/ignore



## Translate

Tools, Concrete Materials, Tables, Diagrams, Formulae, Check for hidden assumptions

## Engage and Solve

Spatial/Graphical Reasoning, List, Draw, Work backwards, Eliminate, Sort, Classify, Estimate, Compare, Organise, Vary, Try extreme cases, Work systematically

## Interpret

Summarise, Explain, Justify, Reason, Generalise, Prove, Judge the Validity, Convince, Predict, Draw conclusions, Mathematical Solutions, Real World Solutions.