

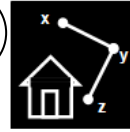
# Hands-On Problem-Solving for Primary Grades

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## Problem Solving Strategies

### Guiding Questions to ask your child:

- What do you need to find out?
- What information is important in the problem?
- What information is not important?
- In what ways can the problem be solved?
- What materials can you use to solve the problem?
- What strategies can you use to solve the problem?
- What questions do you have about the problems?



Draw a Picture or Diagram



Find a Pattern



Guess, Check & Revise



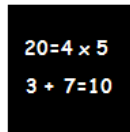
Use Objects



Make an Organized List



Make a Table



Use a Number Sentence



Work Backwards



Use Logical Reasoning



Make It Simpler

### Examples of Word Problems:

Yaseer can read a chapter of his graphic novel in 10 minutes. How many chapters can he read in 1 hour? How many chapters can he read in  $1^{1/2}$  hours?

**Math concepts: time, skip counting, addition**

Shalini wants to save her quarters until she can put them into a coin roller to take to the bank. Quarters are rolled in packages of 40. How much money is in a roll of 40 quarters?

**Math concepts: patterning, money, estimation, multiplication**

### Website Resources

Primary Grades Math Curriculum: <http://www.edu.gov.on.ca/eng/curriculum/elementary/math18curr.pdf>

Guide to Effective Teaching in Math: <http://www.edugains.ca/newsite/lms/guidetoinstructioninmathkto3.html>

Online Videos clips located within Module for Parent on student-learning strategies, parent-teacher conferences: <http://eworkshop.on.ca/edu/core.cfm>

Doing Mathematics with Your Child K-6 Parents Guide:

<http://www.edu.gov.on.ca/eng/literacynumeracy/parentguidenum2012.pdf>

TVO Kids Homework Help for Math <http://homeworkzone.tvokids.com/hwz/math>

**Print Resource** Hands On Problem-Solving Grade 3 by Portage and Main