

Topic: Problem Solving	
Object: Develop advanced problem-solving skills by applying mathematical concepts to real-world situations and complex mathematical puzzles.	
1	My mom is 38 and my dad is 46 years old. If my dad was born in 1978, what is the year that my mom was born?
2	I have 10 meters of material. I need to cut lengths of 30 centimeters. How many complete lengths can I cut? How much will be left over?
3	A plank measures 1 meter 50 centimeters. I cut off $\frac{2}{5}$ of the plank. How long is the plank now?
4	Peter went swimming. Each length of the pool was 50 m long. He swam 6 lengths. How many lengths more does he have to swim so that he has swum 500 m in total?
5	What is the cost of 4.5kg of sugar if it costs 25¢ per 500g?
6	Delilah has $4\frac{1}{2}$ pies to divide equally among 9 people. How much will each person get?
7	I want to make 12 cakes. If I know that 6kg of flour is enough for 36 cakes, how much flour will I need?
8	Bob is 20cm taller than Sandy. Sandy is 15 cm shorter than Alan. Alan is 1m15cm tall. How tall is Bob? How tall is Sandy?
9	The state of Colorado is nearly rectangular. It is about 589 kilometers by 456 kilometers. What is the approximate perimeter of Colorado?
10	Jessica wants to put a fence around her 12.5 foot by 15 foot rectangular garden. How many feet of fencing will she need?
11	David wants to carpet part of her bedroom that is shaped like a right triangle with base 4.6 meters and height 3.8 meters. How much carpet will she need?
12	If a snail travels 3mm in 5 minutes, how far will it travel in half an hour?

