Master Maths 9 Worksheet 25 Solving Linear Equations 2



Name:	
1. A farmer owns a rectangular-shaped farm. She knows that the length is 2 km longer than the width and the perimeter is 16 km. Find x, the width of her farm.	 4. Four teenagers have CD collections. Naomi has twice as many in her collection as Julian. Greg has 6 CDs less than Julian. Adele has 3 more than Julian. (a) If Julian has n CDs, write expressions for the number owned by each of the other three people.
	Naomi Greg
2. A grandfather set this puzzle for his three	Adele
grandchildren. "If you add your three ages, the total is one-half of what my age was 5 years ago." (a) If the children's ages are 8, 10 and 12 years, write an equation to fit the information in the puzzle above.	(b) If they have a total of 77 CDs between them, how many does each person have?
Use x as the grandfather's age.	Julian
$\frac{x-5}{}$	Naomi
(b) Solve the equation to find grandfather's	Greg
age.	Adele
3. Solve for x . $x = \frac{1}{x + 20}$	5. Ms. I. N. Stine set her Year 9 science class a puzzle to find the capacity of two different sized containers. She gave this information to her class:
	It requires 15 litres of water to completely fill containers A and B. Container A holds 3 litres more than container B.
	Find the capacity of container A and container B.
	Container A
	Container B