Year	Ontario's CO_2 Emissions (kilotonnes/year)
1995	175 000
1996	182 000
1997	186 000
1998	187 000
1999	191 000
2000	201 000
2001	193 000
2002	199 000
2003	203 000
2004	199 000
2005	201 000

CO_2 emissions are measured in kilotonnes (kt); 1 kt = 1000 tonnes (t) and 1 t = 1000 kg.

Chapter

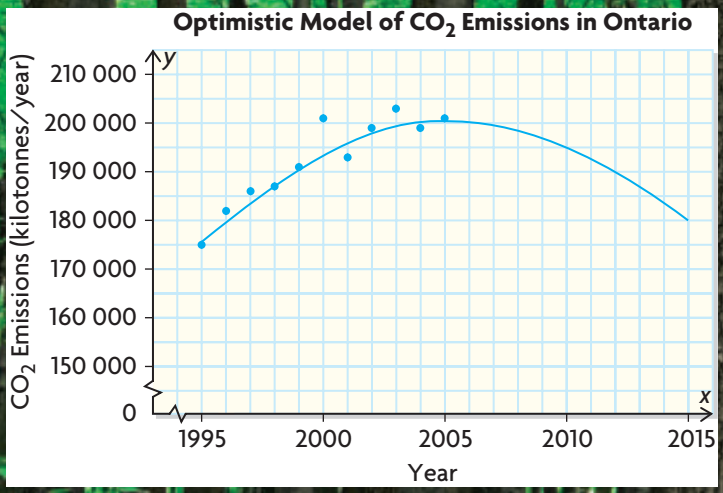
6

Quadratic Equations

GOALS

You will be able to

- Solve quadratic equations graphically, by factoring, and by using the quadratic formula
- Write a quadratic relation in vertex form by completing the square
- Solve and model problems involving quadratic relations in standard, factored, and vertex forms



? Recent attention to the environment has raised awareness about the effects of carbon dioxide in the atmosphere. Many countries are developing strategies to reduce their CO_2 emissions.

How can you use a quadratic model to predict when Ontario's CO_2 emissions might drop below 1995 levels?