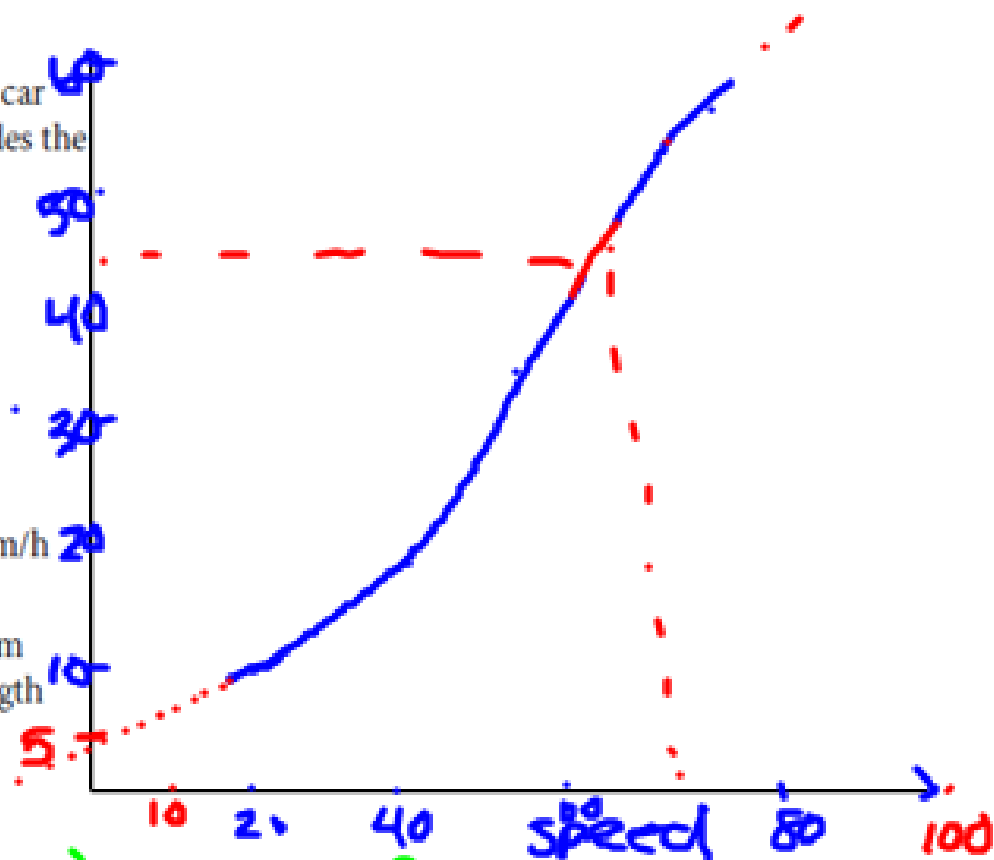


4. The table below shows the minimum stopping distance of a car on a dry, level road for different speeds. This distance includes the reaction time the driver takes to apply the brakes.

Speed (km/h)	Stopping Distance (m)
20	10
40	18
60	32
80	55

Stop. Dist.



- Create a graph to represent the data.
- Determine the likely stopping distance at speeds of 10 km/h and at 70 km/h.
- A football field for the Canadian Football League is 101 m long. How fast would a car be travelling if it took the length of the football field to stop?
- What factors do you think affect stopping distance?

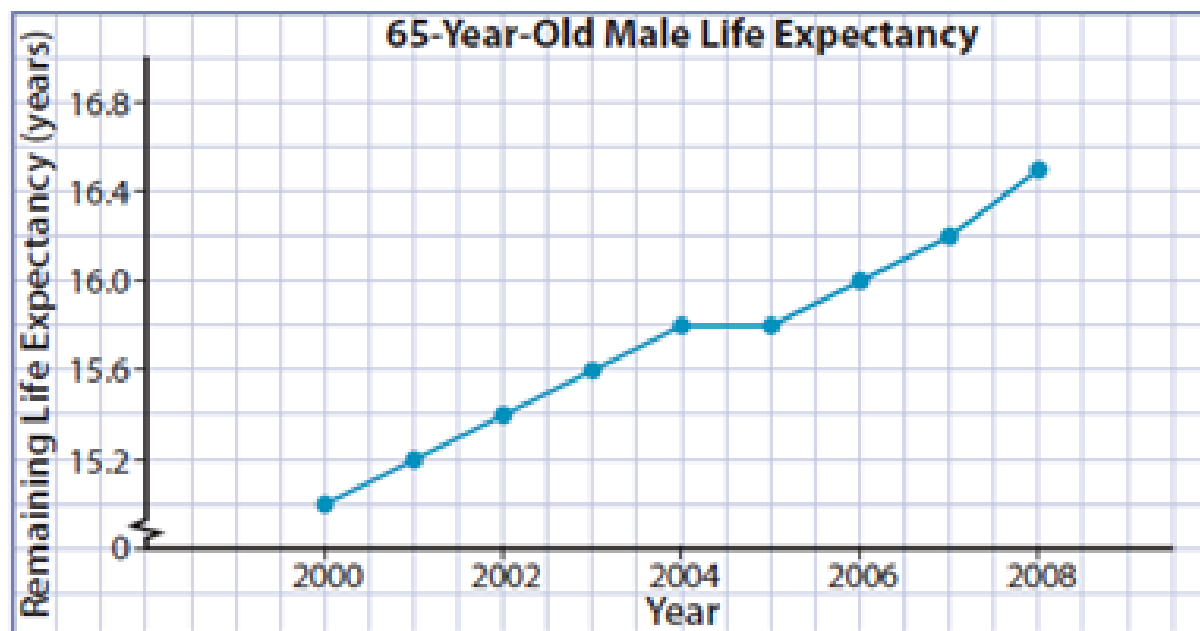
Continuous Data → Line Graph.

For 10 km/h it takes ≈ 5 m to stop
 For 70 km/h it takes ≈ 43 m to stop.

c) ≈ 70 km/h

Chelsea is a data analyst for a provincial health centre. She gathers the following information about the life expectancy of 65-year-old males in Newfoundland and Labrador since 2000. These data will help doctors develop a healthy living campaign for seniors.

Year	Remaining Life Expectancy (years)
2000	15.0
2001	15.2
2002	15.4
2003	15.6
2004	15.8
2005	15.8
2006	16.0
2007	16.2
2008	16.5



- Represent Chelsea's data with an appropriate graph.
- What trend(s) do you notice in the graph?
- Could this trend continue indefinitely? Why or why not?

No, we can't live forever.

The Life Expectancy is ↑
steadily

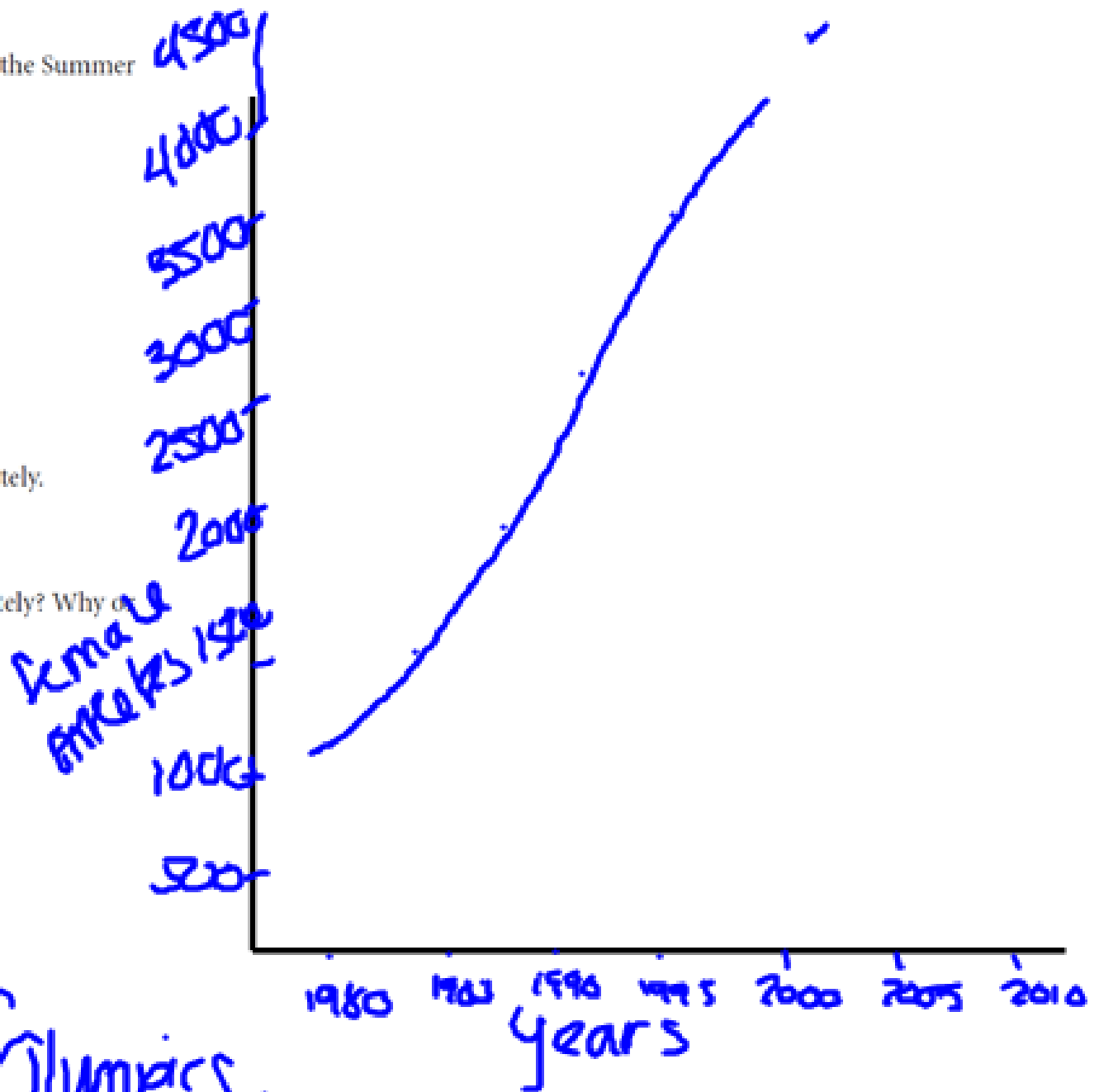
Your Turn

The table shows the number of female athletes in the Summer Olympic Games for the years 1980 to 2008.

Year	# of Female Athletes
1980	1115
1984	1566
1988	2194
1992	2704
1996	3512
2000	4069
2004	4329
2008	4746

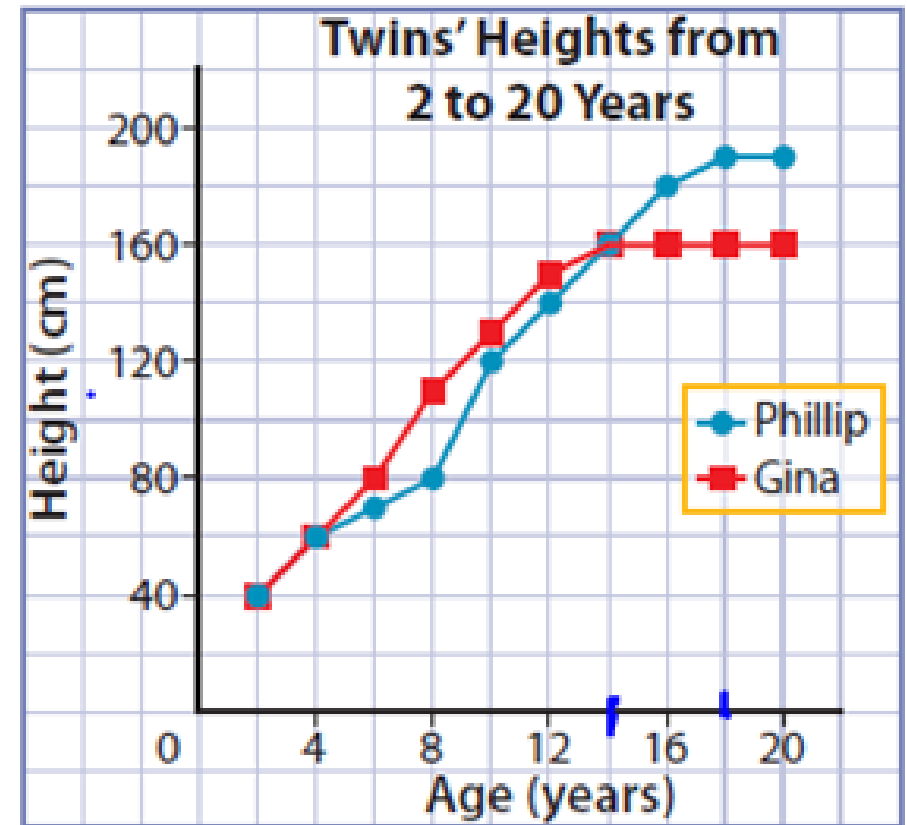
- Create a graph to represent the data appropriately.
- What trend is evident from the graph?
- Give a possible reason for this trend.
- Do you think this trend can continue indefinitely? Why or why not?

b) The graph tells us that more female athletes are in the Summer Olympics.
→ Gender Equality.



1. Gina and Phillip are twins.
The graph shows each twin's height, from the age of 2 to the age of 20.

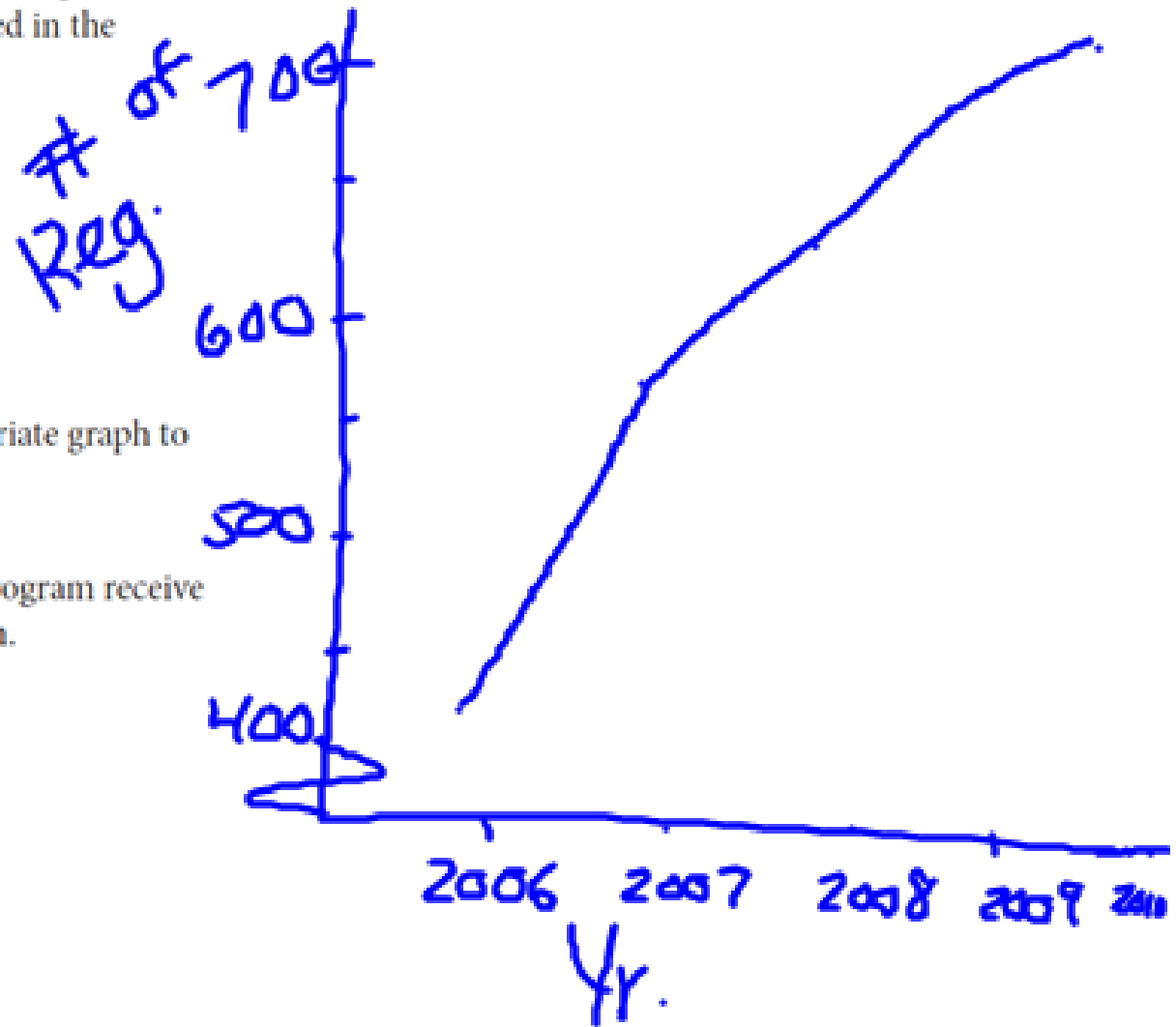
- a)** Describe the trend in Phillip's height.
- b)** Describe the trend in Gina's height.
- c)** Compare and contrast the trends. Explain possible reasons for the similarities and differences.



4. Helen works as a program coordinator for a local sports and recreation club. Each program receives funding for staff and equipment based on the number of people registered in the program. Helen is trying to determine if the swimming program needs increased funding over the next five years. She gathers information about the number of people registered in the swimming program for the last five years.

Year	# of Registrants
2006	420
2007	560
2008	623
2009	681
2010	690

- With or without technology, create an appropriate graph to represent the data.
- Describe the trend in the graph.
- Would you recommend that the swimming program receive more funding over the next five years? Explain.



a) What trend do you see?

b) Will the trend continue indefinitely?

c) Which year had most oil produced? How much?

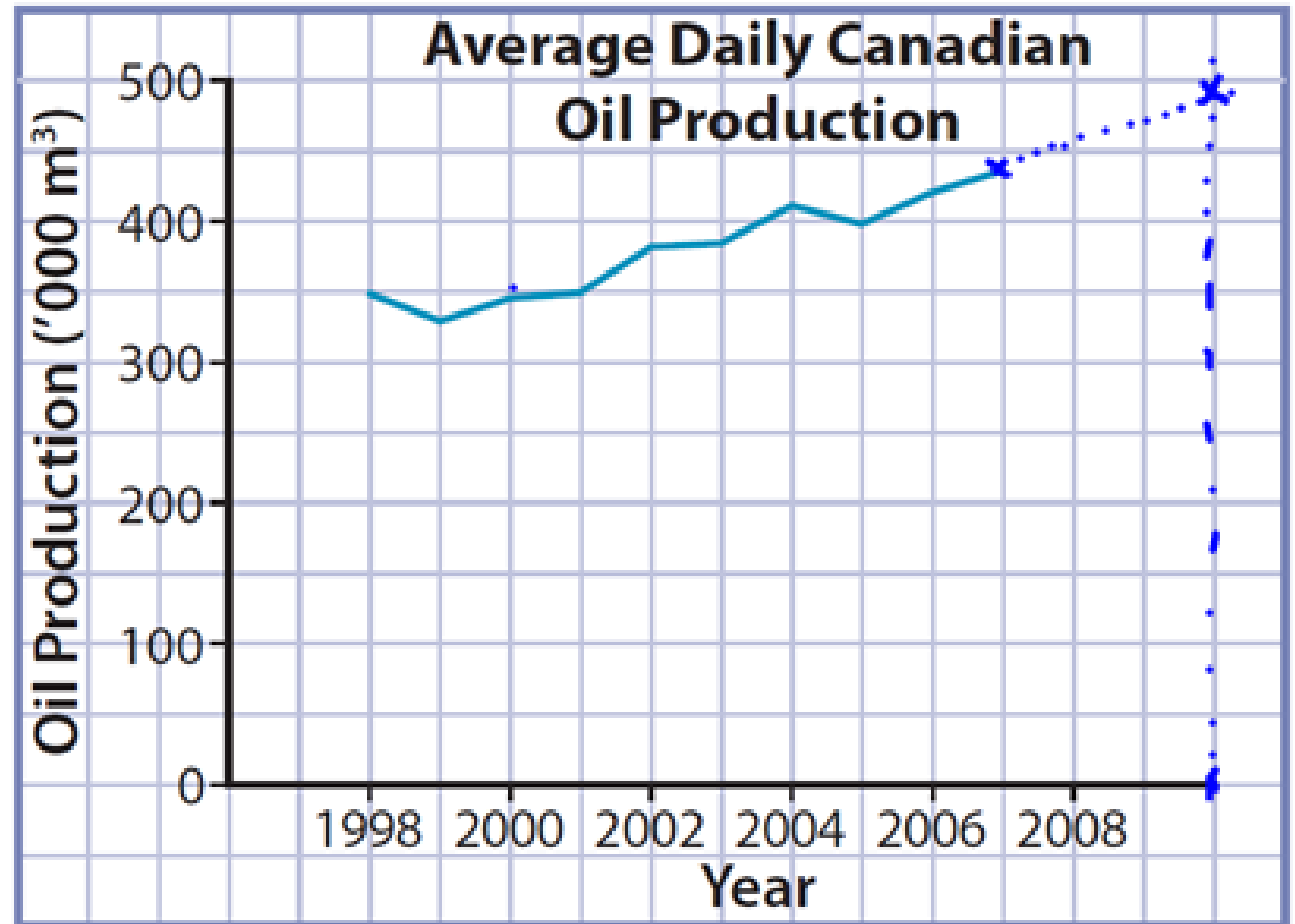
2007 → 445 m³

d) How much oil produced in 2010?

≈ 495 m³

e) How much oil produced in 2000?

350 m³



Class Work

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