

Measles Vaccination

Measles Incidence and Vaccinations

Question

What is the relationship between vaccination and the incidence of measles?

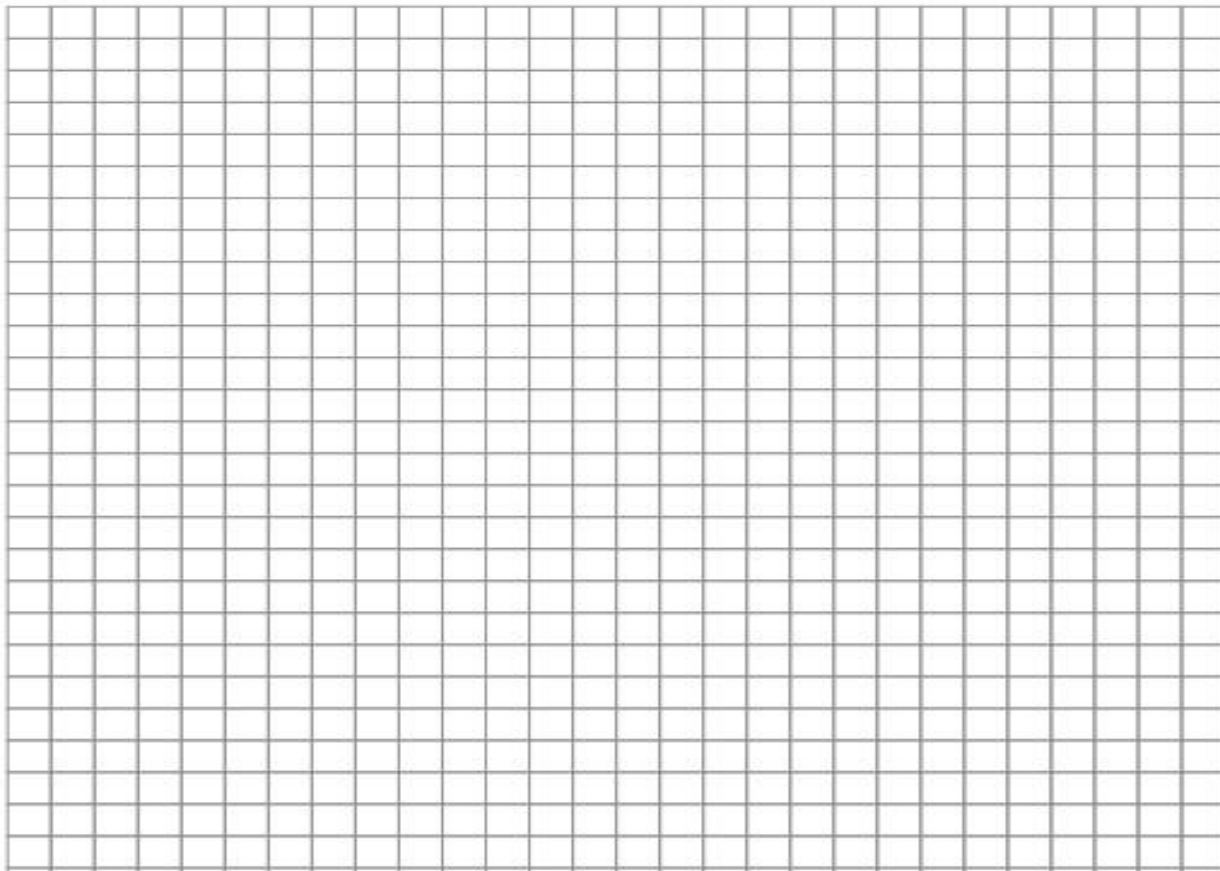
Procedure

1. Construct a graph to plot the data. Place *Year* on the *x*-axis. Place *Incidence of Measles* on the left *y*-axis and *Percent Vaccinated* on the right *y*-axis.
2. Decide how you will represent each part of the data on your graph. For example, you could choose to represent the *Incidence of Measles* data using bars and the *Percent Vaccinated* data using a line.
3. Use coloured pencils to plot the points on your graph.

Year	Incidence of Measles (*indicates estimation)	Percent Vaccinated
1980	4 211 431	13
1983	3 843 120*	36
1986	2 375 248*	60
1989	1 984 329*	73
1992	1 499 898*	80
1995	760 634*	80
1998	694 466	80
2001	846 765	72
2004	509 734	85
2007	280 771	90

Paper

1/4-Inch Grid Paper



Analyze and Interpret

1. Describe the connection between the incidence of measles and the percentage of people receiving a vaccine each year.
2. Explain why you think this connection exists.

Conclude and Communicate

3. In British Columbia, it is recommended that infants and young children receive a measles vaccine. In several other provinces, measles vaccines are required for school entrance. However, exemptions are possible for medical or religious reasons, or reasons of conscience. Write a short paragraph expressing your opinion about exemptions. Consider how exemptions might affect public health.

Answers:

1.

2.

3.