



Name: \_\_\_\_\_ Div: \_\_\_\_\_ Date: \_\_\_\_\_

## How Effective are Vaccines?

The first vaccine developed was created to prevent smallpox in 1796, but the disease was not declared eradicated by the WHO until 1980. Scientists have continued ever since to create new vaccines and improve the effectiveness of those already in use.

Complete the chart:

- estimate* the percent decrease in the occurrence of each disease since the discovery of its vaccine.
- calculate the *actual* percent decrease (rounded to hundredths) Be sure to show your thinking.
- round* your percent decrease to the nearest whole number.
- compare your results with **the KBI poster** provided, write a *concluding statement* about how your results compared with the KBI poster, why they might be different, and what you have learned about the effectiveness of vaccines.

Disease	# of cases <i>then</i>	# of cases <i>now</i>	Estimation (whole #)	% decrease (hundredths)	% decrease (whole #)
Polio	2 545	0			
Diphtheria	8 142	1			
Disease	# of cases <i>then</i>	# of cases <i>now</i>	Estimation (whole #)	% decrease (hundredths)	% decrease (whole #)
Whooping Cough	17 777	2 332			
Mumps	36 101	103			

Rubella	14 974	1			
Measles	53 584	292			