

NOMBRE: _____

P.A.T Prep
Interpreting Graphs

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 \div \times

KEEP
CALM
AND
DO THE
MATH

St. Brendan School
Mr. Martínez

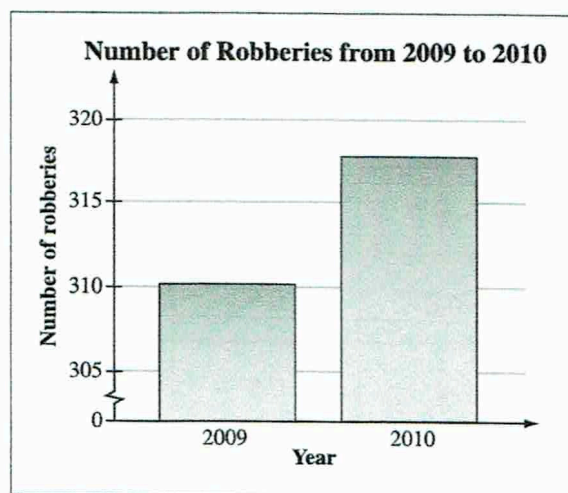
INTERPRETING GRAPHS

THINGS TO LOOK OUT FOR

- ANY GRAPH THAT DOES NOT START AT ZERO IS MISLEADING
- BAR GRAPH: BARS HAVE TO BE OF SAME WIDTH
- LINE BARS: THE "DOTS" HAVE TO REPRESENT THE SAME CATEGORY

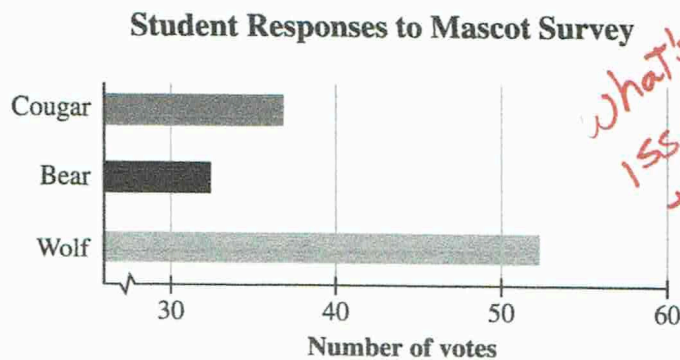
The local newspaper of a large city printed the following graph with the following headline:

"Robberies are Predicted to Double in 2011"



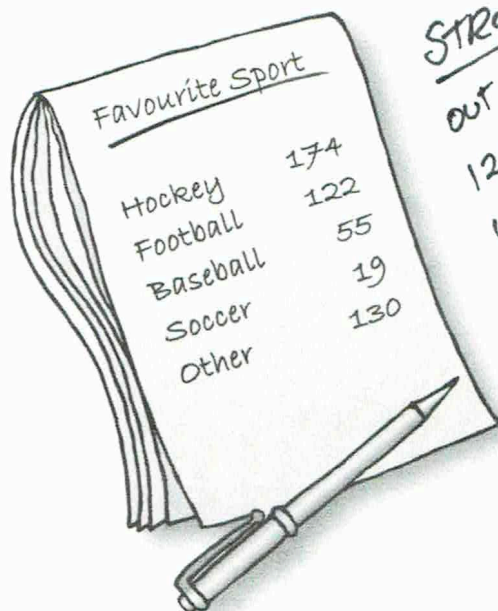
40. The newspaper headline is **not** a reasonable interpretation of the graph shown above because the
- width of the bars is exaggerated
 - scale of the y-axis is misleading
 - probability is based on theoretical data
 - probability is based on experimental data

The student council of a senior high school surveyed 120 out of 250 Grade 10 students to determine which of three animals should be the school's new mascot. The results of the survey are shown below.



What's the issue with the amount of students interviewed?

In a survey, 500 people were asked to name their favourite sport. The results of the survey are shown below.



*Strategy
out of 500,
122 is close to
what? $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$*

CIRCLE GRAPHS

- Always determine the 100%
- Calculate the % for each category (this is what will be represented as a "piece" of the pie)

• Angle



- Convert the % to decimal

$$\text{Angle} = \text{decimal} \times 360^\circ$$

30. If the data results were displayed on a circle graph, then the measure of the angle that would represent how many people selected football would be approximately

- A. 33°
- B. 88°
- C. 122°
- D. 244°