Apply Probability Concepts in Solving Problems

Achieved	Merit	Excellence
Apply probability concepts in solving problems.	Apply probability concepts, using <u>relational thinking</u>, in solving problems.	Apply probability concepts, using <u>extended abstract thinking</u>, in solving problems.
<u>Relational Thinking</u> - Involves selecting and carrying out a logical sequence of steps, connecting different concepts or representations, demonstrating understanding of concepts, and relating findings to a context.		
<u>Extended Abstract Thinking</u> - Involves devising a strategy, identifying relevant concepts, developing logical reasoning, forming generalizations, and communicating mathematical insight.		

Probability Concepts

The concepts included in this standard are related to:

- ☐ True probability versus model estimates versus experimental estimates
- ☐ Randomness
- ☐ Independence
- ☐ Mutually exclusive events
- ☐ Conditional probabilities
- ☐ Probability distribution tables and graphs
- ☐ Two-way tables
- ☐ Probability trees
- ☐ Venn diagrams

Problems

The problems will be set in real-life or statistical contexts and provide opportunities to apply probability knowledge and concepts.

Key Vocabulary

Students are expected to understand and use terms related to probability, such as:

- ☐ Probability
- ☐ Venn diagrams
- ☐ Probability trees
- ☐ Two-way tables
- ☐ Mutually Exclusive
- ☐ Conditional
- ☐ Distribution
- ☐ Independence
- ☐ Event
- ☐ Outcome
- ☐ Trial
- ☐ Randomness