

Guide to making judgments — Year 6 Mathematics

Name

Focus: Apply knowledge of chance events and variation to make predictions, explain results and evaluate game strategies.

Knowledge and understanding	Thinking and reasoning	Thinking and reasoning Reflecting	Communicating	
Uses possible outcomes and frequency to estimate likelihood as a common fraction. Compares and orders estimates of likelihood. Identifies and explains investigation results and differences between graphs. Questions 1a–b, 2, 5, 6a–d	Makes and justifies a prediction of the best placement of ladybirds. Question 3	Reflects on learning and applies new understandings to evaluate the effectiveness of game strategies. Questions 6e, 7	Communicates using mathematical language and representations to justify thinking and reasoning. Questions 1c, 3b, 4, 5, 6d–e, 7	
<div>▲</div> <ul style="list-style-type: none">Explains investigation results and differences between graphs using an understanding of the factors influencing chance events and variation.Correctly compares and orders estimates of likelihood in Diagrams 1 and 2.Correctly expresses likelihoods as common fractions in Tables 1 and 2. Identifies obvious mathematical differences between graphs.Expresses likelihoods as common fractions in Table 1, which are generally correct. Identifies outcomes with equal likelihoods.Translates information from graphs into tables. Identifies a most and least likely outcome, and an impossible event.Identifies numbers of outcomes from grid.	<div>▲</div> <ul style="list-style-type: none">Justifies placement of each ladybird using comprehensive mathematical interpretation of chance events and variation.Considers chance events in prediction and explanation.Supports placement of ladybirds with an appropriate explanation.Makes a prediction by placing ladybirds on petals.	<div>▲</div> <ul style="list-style-type: none">Considers and uses quantitative data from multiple sources to support judgment about the ability of own strategy to win.Accurately judges each of the four player’s chance of winning, and justifies using an understanding of chance events.Considers and uses a mathematical source to support judgment about the ability of own strategy to win.Supports judgments about the four player’s chance of winning with relevant explanations.Makes judgments about the effectiveness of own and four player’s strategies.	<div>▲</div> <ul style="list-style-type: none">Communicates and justifies thinking and reasoning using clear mathematical language.Makes logical and well-reasoned explanations.Communicates thinking and reasoning using appropriate mathematical language.Records possible outcomes and frequency in graphs.	A
				B
				C
				D
				E

Feedback
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