presents

National All Rounder Championship

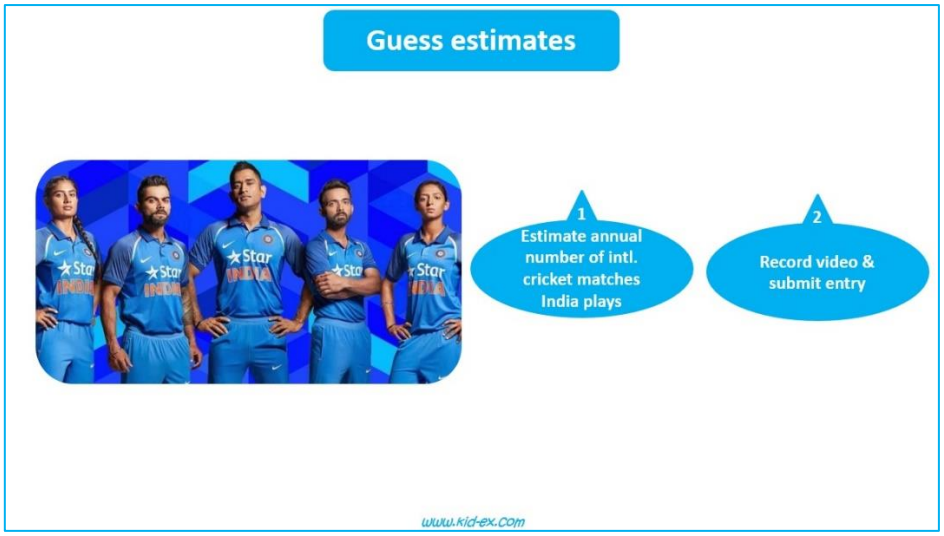
1 May 2021 - 31 July 2021

Self-Learning Manual: Activity 09

Cognitive skills:

Guess estimates

Age: 7-8 years



Activity description

The child is required to estimate the total number of international cricket matches Indian team plays in a year on an average (can be any gender). The child should attempt the guess-estimate in at least 1 unique approach (e.g. demand side/supply side). Approach should have at least 2 distinct components in guess-estimate i.e. break the guess estimate into at least 2 steps identifying key factors for which assumptions/estimates need to be made. Refer to web resources for understanding guess estimates.

The child should make reasonable assumptions for key factors' value. The child is required to think out aloud the guess-estimate i.e. speak how is the child doing the guess-estimate. The child should combine the entire guess estimate assumptions & may end the guess estimate with a final answer (i.e. add/multiply the numbers & quote a final answer) or without completing the final calculation. The child should not read from anywhere.

The intent of the exercise is to give the child an opportunity to demonstrate 2 things in parallel: Create a guiding structure to think/estimate & Make actual estimates. There is no correct or incorrect answer.

Let the child record the entire performance at one go. No video editing is allowed & any video found to be edited/doctored would be disqualified. Whenever the child is ready, record a video and submit.

Assessment guidelines

The total non-bonus points for this activity is 30. Every submission would be rated as either of below.

M = Master (100%)	The child can do guess-estimate using one approach as instructed using at least 2 distinct components & making reasonable (i.e. >50% accuracy) value assumptions
I = Intermediate (80%)	The child can do guess-estimate using one approach as instructed using at least 1 distinct component & making reasonable (i.e. >80% accuracy) value assumptions
B = Beginner (50%)	The child can do guess-estimate using one approach as instructed using at least 1 distinct component & making reasonable (i.e. >50% accuracy) value assumptions
A = Aspirant (25%)	For participating in the event & making an event relevant submission which does not meet assessment guidelines for M, I or B.
NA (Not applicable)	No submissions or any submission which is irrelevant for the activity.

50% bonus marks: If the child securing an M can do guess-estimate as instructed using at least 2 distinct components, >80% accurate assumptions & complete calculation to arrive at final answer

Expert coach speaks

Guess estimates is a technique/skill to make the best possible estimate to quantify any given thing e.g. number of children who will score >90% marks in 10th board exams in India or number of times the doorbell of the house rings in a day.

This technique is useful to practice & learn to handle any ambiguous problem solving & is useful skill to have both in jobs or interviews or entrepreneurship/start ups. The overall motive is to check the dimensions in which the child's mind can think while handling ambiguity and, to be able to articulate the thinking process.

Key benefits of this activity

The activity benefits in many ways:

- Improves logical thinking and reasoning abilities
- Helps make reasonable guesses to seemingly difficult to solve problems
- Opens mind to deal with complexity, probability, and possibility
- Promotes mathematical skills and strategic thinking

Common mistakes to avoid

- *The child is worrying about getting to the right answer – answer is not important, the thinking process & it's communication is*
- *The child is uncomfortable thinking in subjective / abstract manner without any thinking guardrails*
- *The child's mental mathematics skills are not strong enough*

Useful web resources

- *What is guess estimates?*
- *How to attempt guess estimates?*
- *Guess estimate: Delhi's area*
- *Guess estimate: Weddings in India*
- *Guess estimate: Tourist from Delhi to Goa*
- *Guess estimate: Washing machine sold*
- *Guess estimate: ACs sold in India*
- *Guess estimate: Flights from Delhi*
- *Guess estimate: Flights from Lucknow*

Submissions start 11th May 2021. To submit your entry, visit our website (www.kid-ex.com). For any queries, email us at info@kid-ex.com.

Keep learning! Keep growing! Stay happy! Be successful!