

Chapter 1 Task

Use this worksheet to help you with the Task on page 44 of the student resource.

- 1. a)** If each student started with 100 points, what were the total points for all participating students at the start of the game? _____
- b)** What are the total points for all participating students at the end of the game? _____
- c)** How much did “the house” win (or lose)? _____
- 2. a)** How many students ended the game with more points than they started with? _____
- b)** How many students ended the game with fewer points than they started with? _____
- c)** How many students did not participate? _____
- 3. a)** Why do you think a casino wants some players to win?

- b)** Why might a winning player wish to return to the casino in the future?

- c)** Why might a losing player wish to return to the casino in the future?



- 4. a)** What is the theoretical probability of selecting the correct colour of the card revealed?
- b)** What is the theoretical probability of selecting the correct suit of the card revealed?
- c)** What is the theoretical probability of selecting the correct value of the card revealed?
- d)** What is the theoretical probability of selecting the exact card revealed?
- e)** Express the odds of winning each game.

Colour	Suit	Value	Card
1 : _____			

- 5.** Use your data from **BLM 1–5 Chapter 1 Task Recording Chart** to answer these questions. If you did not play all games, use data from a peer's **BLM 1–5 Chapter 1 Task Recording Chart**.
- a)** What is the experimental probability of selecting the correct colour of the card revealed? _____
- b)** What is the experimental probability of selecting the correct suit of the card revealed? _____
- c)** What is the experimental probability of selecting the correct value of the card revealed? _____
- d)** What is the experimental probability of selecting the exact card revealed?



6. a) Which is the only Klass Kasino game with a “fair” payout? Explain.

b) If the other 3 games had a fair payout, then

- Pick the _____ game would pay _____ points for each point wagered.
- Pick the _____ game would pay _____ points for each point wagered.
- Pick the _____ game would pay _____ points for each point wagered.

7. What is the long-term effect of the Klass Kasino games having the payout rates that they do?

8. Collect an ad *or* article showing the winner of a contest, lottery, or game of chance. Answer *one* of the following questions:

a) Why do ads for games of chance usually show a jubilant winner? How is the probability of winning represented?

b) Why do people like reading about those who have won big at games of chance? How is the probability of winning represented?

