

STUDENT PROBLEM CORNER

Students are encouraged to examine the problems presented below. Send explanations or solutions to:

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delta-K will publish the names of students who successfully solve the problems.

Final Clearance

Kevin J. Sherratt

Kevin Sherratt is a free-lance writer from London, Ontario.

Near closing time on the last day of a sporting goods liquidation, only \$800 worth of equipment was yet to be sold: 1 canoe @ \$160, 3 tents @ \$80, 5 sleeping bags @ \$40, 6 camp stoves @ \$20, and 8 bush knives @ \$10.

The next five customers each spent \$160, clearing out the last pieces of equipment. From the given clues, find the items that each customer bought.

CLUES:

- . Brad picked up neither bush knives nor tents.
- . Doris bought at least one piece of four different kinds of equipment.
- . Andy and Brad each bought 5 items.
- . Carla bought at least one knife.

Tutors

Karen M. Gibling

Karen Gibling teaches at Elboya Elementary-Junior High School in Calgary.

From the following clues, determine on which day of the week each student tutors.

CLUES:

- . Jane tutors later in the week than Tony does.
- . Jane's day is earlier in the week than Bob's day.
- . Frank will tutor on a day that is later in the week than Cathy's.
- . Frank will tutor earlier than will Bob.
- . Frank, Cathy, and Bob will not tutor on Monday.
- . Frank cannot tutor on Thursday.

FRACTION RUMMY

Equivalent Fractions and Consecutive Fractions

PREPARATION

Prepare fraction cards: two each of $0/12 - 12/12$, $0/6 - 6/6$, $0/4 - 4/4$, $0/3 - 3/3$, and $0/2 - 2/2$ (64 cards). Place each set of cards in an envelope.

HOW TO PLAY

(2 to 4 players)

Each player is dealt seven cards (held so that other players cannot see them).

One card is turned face up to form the beginning of a discard stack. The remaining cards are placed face down in the playing stack.

The player with the largest denominator starts the game. If there is a tie, the player with both the largest denominator and the largest numerator starts.

The player takes one card from the playing stack or the complete discard stack, and may play as follows:

- three or more equivalent fractions may be laid down;
- three or more consecutive fractions may be laid down (remember, the player may convert to twelfths to get consecutive fractions);
- one or more cards may be placed on any of the other cards the player has laid down.

A player ends each turn by placing a card face up on the discard stack.

The first player to lay down all of his/her cards ends the game. Each player receives one point for each card laid down and loses one point for each card remaining in his/her hand.

Contributed by Karen Gibling, Elboya Elementary-Junior High School, Calgary.