

Notes Concerning *Total Concentration*

Level: Advanced (1st-2nd grade)

Materials: Deck of *Total Concentration* cards

Recommended # of players: 2-4

Mathematical relationships: Addition of multiple numbers (1-10); spatial reasoning

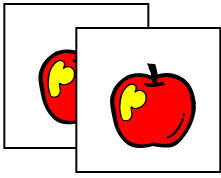
Notes:

The Total Concentration deck consists of 34 cards; there are 8 sets of 4 cards with matching pictures and number and 1 pair with a matching picture and number. The cards have different point values:

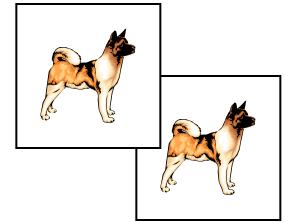
- 1 (point): on 2 different sets (of 4 matching cards)
- 2 (points): on 2 different sets (of 4 matching cards)
- 3 (points): on 2 different sets (of 4 matching cards)
- 4 (points): on 1 set (of 4 matching cards)
- 5 (points): on 1 set (of 4 matching cards)
- 10 (points): on 2 matching cards

This game is a variation of the classic game concentration, in which children try to find pairs of cards. Young children are usually very good at the spatial reasoning involved in playing this game. The variation is to assign point values to the pairs, so that children must add up their scores at the end of the game. This may be challenging to some children who are accustomed to adding up the number of cards to see who is the winner. This variation requires that they decenter to see that cards can be quantified in more than one way.

Children have the opportunity to add several numbers in their heads when they calculate their scores. Teachers have the opportunity to observe how children add numbers. For example, some children arrange their cards to form combinations that are easier to add (such as putting 3 + 2 together twice and then announcing that $5 + 5 = 10$). If children cannot add numbers in their heads, teachers can provide aids, such as paper and pencil, unifix cubes, etc. to assist children in adding up their scores.



Total Concentration



Materials: Deck of Total Concentration cards

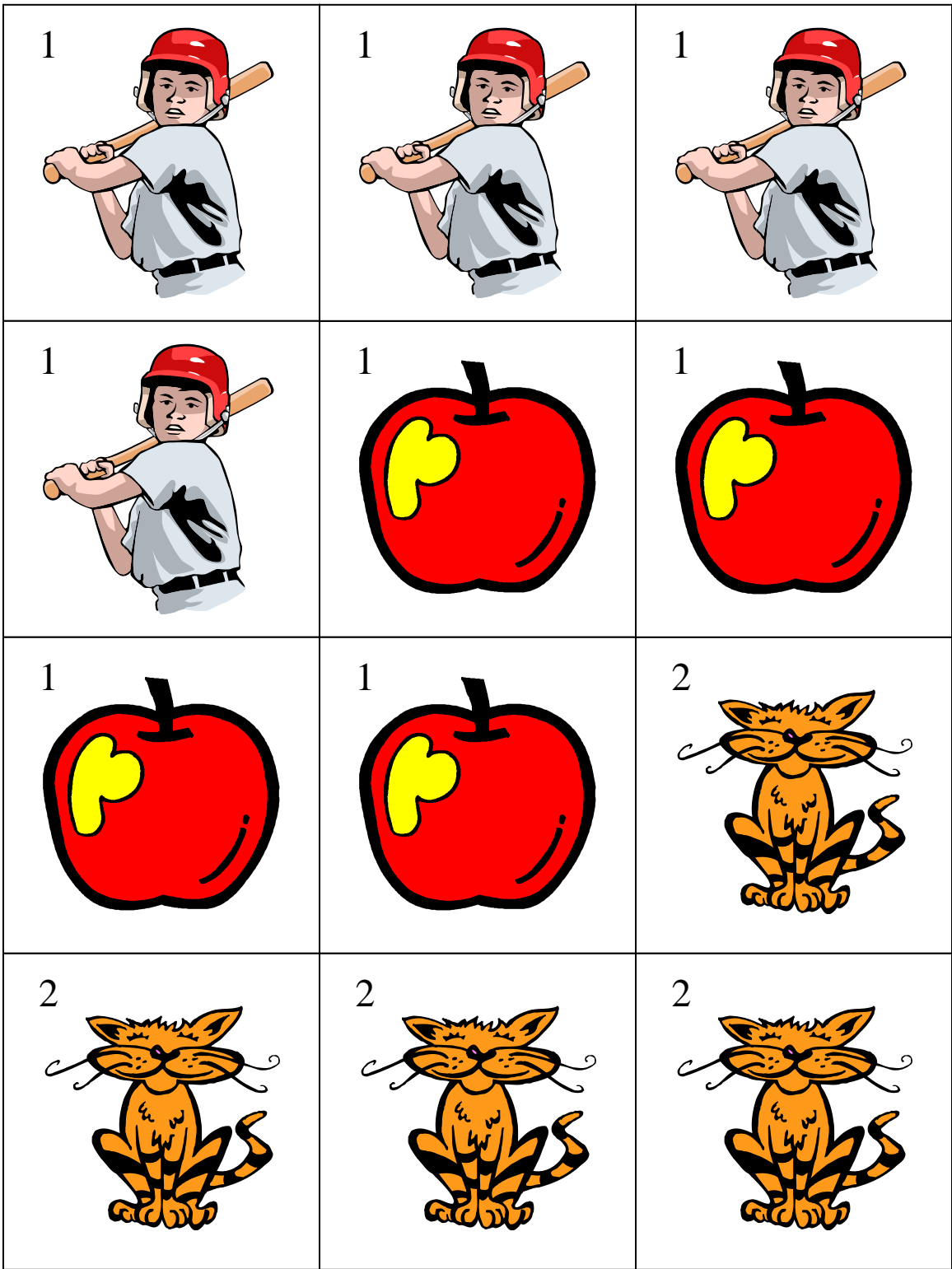
Objective: To collect the greatest number of points.













To play:

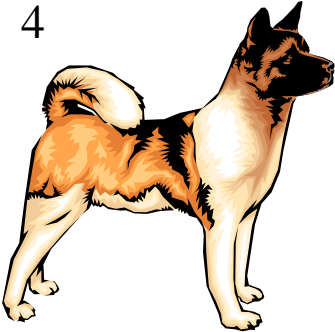
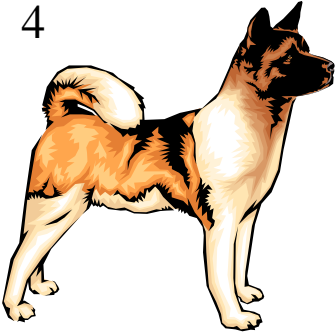
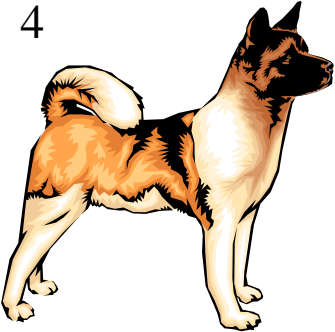
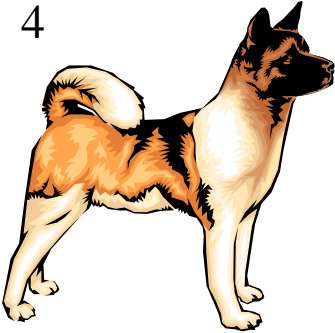





1. Players arrange all of the cards, face down, in neat rows.
2. Players decide who will go first.
3. Players take turns turning over two cards and showing the cards to all of the players.
4. If the pictures on the cards match, the player keeps the cards and gets another turn. The player's turn continues until the player does not get a match.
5. If the cards do not match, the player must turn the cards face down again, in the same spot. The player's turn is over, and the next player takes a turn.
6. The game ends when all of the matches have been found.
7. Players add up their scores by adding all of the numbers of the cards. Cards with the number 1 in the upper left corners are worth 1 point; cards with the number 2 are worth 2 points; and so on.
8. The winner is the person with the most points.



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