

Concentration

Object: to have the most pairs of equivalent ratios at the end of the game

Materials needed: one set of *Concentration* cards for each group

Number of players: 2 or more

Teacher Preparation

Print out, copy, and cut apart one set of *Concentration* cards for each group of students. You may want to mount the cards on card stock before cutting them out.

Game Play

- **Playing the game**

The deck consists of cards with a ratio printed on each.

Players arrange the cards face down in rows. Each player or team turns one card over and then replaces it. The player with the greatest ratio goes first. The players then take turns, going clockwise.

During a turn, a player turns over any two cards. If the ratios on the cards are equivalent, then the player keeps the pair and takes another turn. If the ratios on the cards are not equivalent, then the cards are returned to their original positions.

Players continue to take turns until all of the cards are collected.

- **Winning the game**

The player or team with the most pairs of equivalent ratios at the end of the game wins.

- **Variation**

When a player turns over two cards with equivalent ratios, the turn is over. The player does not take another turn.

$$\frac{1}{2}$$

$$\frac{9}{18}$$

$$\frac{2}{3}$$

$$\frac{3}{4}$$

$$\frac{24}{32}$$

$$\frac{4}{5}$$

$$\frac{8}{12}$$

$$\frac{2}{7}$$

$$\frac{14}{49}$$

$$\frac{16}{20}$$

$$\frac{1}{6}$$

$$\frac{5}{30}$$

$$\frac{5}{8}$$

$$\frac{25}{40}$$

$$\frac{10}{24}$$

$$\frac{7}{9}$$

$$\frac{28}{36}$$

$$\frac{15}{36}$$

