

Color Fraction Face Offs - addition


LEVEL:	Grade 3 and up
SKILLS:	Comparing fractions, adding fractions
PLAYERS:	2
EQUIPMENT:	two regular dice per player, fraction pieces
GETTING STARTED:	Players use the following code throughout the play of the game.

Roll  take $\frac{1}{10}$ purple

Roll  take $\frac{1}{5}$ green

Roll  take $\frac{1}{8}$ blue

Roll  take $\frac{1}{4}$ yellow

Roll  take $\frac{1}{6}$ turquoise

Roll  take $\frac{1}{3}$ orange

Both players roll their dice, select the corresponding two fraction pieces and combine them for a total fraction rolled. Players then compare their fractions to determine who has the largest total fraction. Players may need to overlap their pieces to compare them. The player with the greatest total fraction scores 1 point.

Player One rolls 6, 4

Player two rolls 2, 2

takes $\frac{1}{3}$ and $\frac{1}{5}$

takes $\frac{1}{8}$ and $\frac{1}{8}$

Player one verbalizes $\frac{1}{3}$ and $\frac{1}{5}$ is greater than $\frac{1}{8}$ and $\frac{1}{8}$

In the event of a tie and players have built equivalent fractions, both players earn 1 point. The first player to earn 20 points is the winner, or after a set period of time the player with the most points is the winner.

VARIATION 1

Players can roll three or four dice each turn before comparing total fractions.

VARIATION 2

Challenge players to add their fractions and verbalize the corresponding math sentence, ie

Player One: $\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$ **Player Two:** $\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$

TEACHING TIP

It may help to actually color code the dice legend and post this on a board to create a visual aid for the players to follow during the play of the game.