

$$3\frac{1}{2} + 8\frac{1}{6} + \frac{1}{8} = 7 + \frac{1}{2} + \frac{1}{8} = 7 + 0.5 + 0.125 = 7.625$$

Fractions: Addition & Subtraction

Four in a Row Fractions

This fast-action game pairs addition and subtraction of fractions with problem-solving strategies to create a winning combination.

Directions

- Duplicate the reproducible for each pair of students and distribute.
- Give students the following oral instructions:
 - The game is played by two players. Decide who will go first and which kind of game counter each of you will use.
 - The first player searches for two fractions in the boxes at the top of the page that when added or subtracted equal one of the fractions on the game board. Answers are always in lowest terms.
 - Each fraction can be used only once. Draw lines through the fractions used.
 - After locating the fraction on the game board, the first player covers that space with a counter.
 - The second player takes a turn. Players alternate turns.
 - The first player to cover a row horizontally, vertically, or diagonally with his or her counters wins.

Taking It Farther

For an extra challenge, make your own fraction boxes and game board that use unlike fractions.

Assessing Skills

Do students randomly add or subtract fractions, hoping to find one that is on the game board? Or do they look at the board and try to find fractions that, when added or subtracted, provide the needed answers?

LEARNING OBJECTIVE

Students add and subtract like fractions.

GROUPING

Pairs

MATERIALS

- Four in a Row Fractions reproducible (p. 81)
- 16 game counters (8 of one kind, 8 of a different kind)

Answers

Page 81:

Possible Answers:

First row, from left:

$$\frac{1}{2} + \frac{1}{2} = \frac{1}{1}; \frac{1}{4} - \frac{1}{4} = \frac{1}{0}$$

$$\frac{1}{6} + \frac{1}{6} = \frac{1}{1}; \frac{1}{12} - \frac{1}{12} = \frac{1}{0}$$

Second row, from left:

$$\frac{1}{3} + \frac{1}{3} = \frac{1}{1}; \frac{1}{12} + \frac{1}{12} = \frac{1}{1}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{1}; \frac{1}{3} - \frac{1}{3} = \frac{1}{0}$$

Third row, from left:

$$\frac{1}{2} + \frac{1}{2} = \frac{1}{1}; \frac{1}{4} - \frac{1}{4} = \frac{1}{0}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{1}; \frac{1}{3} - \frac{1}{3} = \frac{1}{0}$$

Fourth row, from left:

$$\frac{1}{2} - \frac{1}{2} = \frac{1}{0}; \frac{1}{2}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{1}; \frac{1}{3}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{1}; \frac{1}{3}$$

$$\frac{1}{2} - \frac{1}{2} = \frac{1}{0}$$