

Fractions on a Number Line— Addition and Subtraction Games

POSSIBLE ANSWERS

Game A

$$\frac{4}{9} - \frac{3}{9} = \frac{1}{9}$$

$$\frac{9}{9} - \frac{4}{9} - \frac{4}{9} = \frac{1}{9}$$

Game B

$$\frac{10}{10} - \frac{1}{10} = \frac{9}{10}$$

$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{9}{10}$$

Game C

$$\frac{5}{13} + \frac{5}{13} - \frac{4}{13} = \frac{6}{13}$$

$$\frac{13}{13} + \frac{13}{13} - \frac{5}{13} - \frac{5}{13} - \frac{5}{13} - \frac{5}{13} = \frac{6}{13}$$

$$\frac{13}{13} + \frac{4}{13} + \frac{4}{13} - \frac{5}{13} - \frac{5}{13} - \frac{5}{13} = \frac{6}{13}$$

$$\frac{5}{13} + \frac{5}{13} + \frac{5}{13} + \frac{4}{13} - \frac{13}{13} = \frac{6}{13}$$

Game D

$$\frac{7}{7} - \frac{2}{7} = \frac{5}{7}$$

$$\frac{2}{7} + \frac{2}{7} + \frac{2}{7} + \frac{2}{7} + \frac{2}{7} + \frac{2}{7} - \frac{7}{7} = \frac{5}{7}$$

Game E

$$\frac{8}{25} + \frac{8}{25} + \frac{8}{25} - \frac{5}{25} = \frac{19}{25}$$

$$\frac{25}{25} + \frac{5}{25} + \frac{5}{25} - \frac{8}{25} - \frac{8}{25} = \frac{19}{25}$$

$$\frac{5}{25} + \frac{5}{25} + \frac{5}{25} + \frac{5}{25} + \frac{5}{25} + \frac{5}{25} + \frac{5}{25} - \frac{8}{25} - \frac{8}{25} = \frac{19}{25}$$

Game F

$$\frac{12}{13} + \frac{12}{13} - \frac{1}{13} - \frac{1}{13} = \frac{22}{13}$$

$$\frac{13}{13} + \frac{12}{13} - \frac{1}{13} - \frac{1}{13} - \frac{1}{13} = \frac{22}{13}$$

$$\frac{13}{13} + \frac{13}{13} - \frac{1}{13} - \frac{1}{13} - \frac{1}{13} - \frac{1}{13} = \frac{22}{13}$$

$$\frac{13}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} = \frac{22}{13}$$

$$\frac{1}{13} + \frac{1}{13} + \frac{1}{13} + \dots + \frac{1}{13} + \frac{1}{13} + \frac{1}{13} = \frac{22}{13}$$

Game G

$$\frac{7}{8} - \frac{1}{8} = \frac{3}{4}$$

$$\frac{8}{8} - \frac{1}{8} - \frac{1}{8} = \frac{3}{4}$$

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{4}$$

Game H

$$\frac{70}{100} - \frac{60}{100} = \frac{1}{10}$$

Game I

$$\frac{10}{1} - \frac{2}{1} = 8$$

$$\frac{10}{2} + \frac{10}{2} - \frac{2}{2} - \frac{2}{2} = 8$$

$$\frac{10}{2} + \frac{10}{2} - \frac{2}{1} = 8$$

$$\frac{10}{2} + \frac{2}{2} + \frac{2}{2} + \frac{2}{2} = 8$$

$$\frac{10}{2} + \frac{2}{1} + \frac{1}{1} = 8$$

$$\frac{10}{2} + \frac{2}{1} + \frac{2}{2} = 8$$

$$\frac{2}{2} + \frac{2}{1} + \frac{2}{1} + \frac{2}{1} = 8$$

Game J

$$\frac{6}{1} - \frac{1}{6} = 5\frac{5}{6}$$

$$\frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = 5\frac{5}{6}$$

$$\frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6} - \frac{1}{6} = 5\frac{5}{6}$$