The challenge is to use the numbers and fractions available, and the four standard operations (addition, subtraction, multiplication and division) to hit the target.

TARGET

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

| 3 | 2 | $\frac{1}{4}$ | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ |

You can only use each card once in your solution. It is possible to find a solution without needing to use all the cards. How many solutions can you find?

Use the cards below to generate new games with six cards and a target. You could cut the cards out and turn them over so that you can choose them at random. Is it always possible to hit the target? Can you find a solution without using all the cards?

TARGET	TARGET	TARGET	TARGET	TARGET	TARGET	TARGET	TARGET
$\frac{-1}{4}$	$\frac{5}{7}$	$\frac{-1}{2}$	$\frac{7}{32}$	$\frac{-21}{32}$	$\frac{-23}{4}$	$\frac{48}{5}$	$\frac{9}{16}$

| 1 | 2 | 3 | 4 |

| $\frac{1}{4}$ | $\frac{1}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{7}{8}$ |

| $\frac{1}{2}$ | $\frac{3}{8}$ | $\frac{3}{4}$ | $\frac{1}{4}$ | $\frac{5}{8}$ | $\frac{1}{8}$ |