## Hit The Target (Grades 4-8)

Players: Groups of two to five players
Materials: Deck of cards, Ace worth 1 or 11, Jack worth 12, Queen worth 13, King worth 14, scratch paper

Skill: Multiplication, addition, subtraction, division, order of operations, and mathematical reasoning

How to Play: Each group of $2-5$ students selects a target number from 130. One of the players will turn five cards from the deck face up and the object is for students to make a number sentence using all five cards with any operations to reach the target number.


For example, suppose the target number is 20 and the cards in play are 5 , 5, 6, 2, and Ace (worth 1).


One winning combination is: $5 \times 2+5+6-1=20$. Another is $(6 \times 5)-(2 x$ $5 \times 1)$. Also, $(6 \div 2) \times 5+(5 \times 1)$ works, as do many more.

The first player to find a winning combination keeps the cards and chooses the next target number. If no combination is found in about a minute, flip over another card and try to make a combination using six cards.

To keep the game fair for players of different abilities, introduce the rule that if a player hasn't made a combination in three rounds, he or she may make combinations using four of the five cards until they make a winning combination; other players must use five.

