

## contents and sample pages

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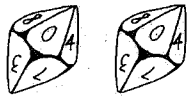
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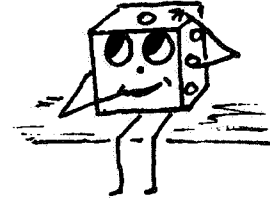
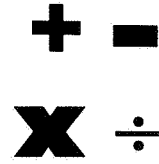
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# CONNECT THREE



## Materials

Connect Three playing board, dice, counters to cover the numbered squares on the playing board.

## Organisation

2 - 4 players

## Rules

- The first player rolls the dice for the given game. The player may use one or more operations on the numbers shown on the dice to produce a total shown on the board. The total is then covered with a counter. The player may **not** cover a number which was previously covered. If a player is unable to find a total which has not already been covered, he/she must pass the dice to the next player.
- The winner is the person who **completes** a row of three, either horizontally, vertically or diagonally.

## Sample Game

### Two dice version

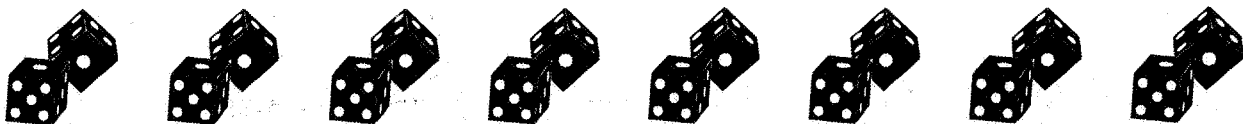
If a player throws a 3 and a 6 he/she may cover 18 ( $6 \times 3$ ), 9 ( $6 + 3$ ), 3 ( $6 - 3$ ) or 2 ( $6 \div 3$ ). The player should clearly state how they arrived at the answer.

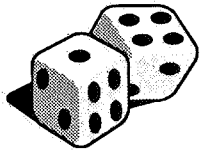
### Three dice version

If playing the 3 dice version of Connect Three, players may mix the operations used to reach a total. For example if a player rolls three sixes the following totals could be formed: 216 ( $6 \times 6 \times 6$ ), 18 ( $6 + 6 + 6$ ), 42 ( $6 \times 6 + 6$ ), 30 ( $6 \times 6 - 6$ ), 7 ( $6 \div 6 + 6$ ), etc. Remember to watch the order of operations.

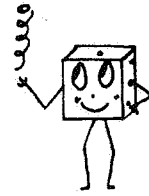
## Variations

- Play the ten sided dice game or the three six sided dice game.
- Allow players to remove counters from previously covered numbers if they can make the total using the numbers shown on their dice.





# THE GREAT CAR RACE 1



## Materials

Two dice and 11 counters.




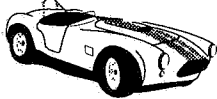


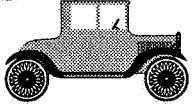


## Organisation

Small groups

## Rules

- Place counters on each of the squares numbered 2 – 12 to represent race cars.
- Throw 2 dice and add total the values to see which counter moves forward one square.

*Which car do you think will win?*

	2	F
	3	I
	4	N
	5	I
	6	S
	7	H
	8	
	9	L
	10	I
	11	N
	12	E

- Play the game several times keeping a note of the winning cars.

*Is it a fair race? Explain.*