

# Number Race Counting Challenge

## Activity 1



**Objectives:** To develop number recognition and counting skills through a car-themed counting challenge.

**Key Learning Areas:** Mathematics

**Areas:**

**Materials:** Printable counting challenge cards, toy cars or car-shaped counters

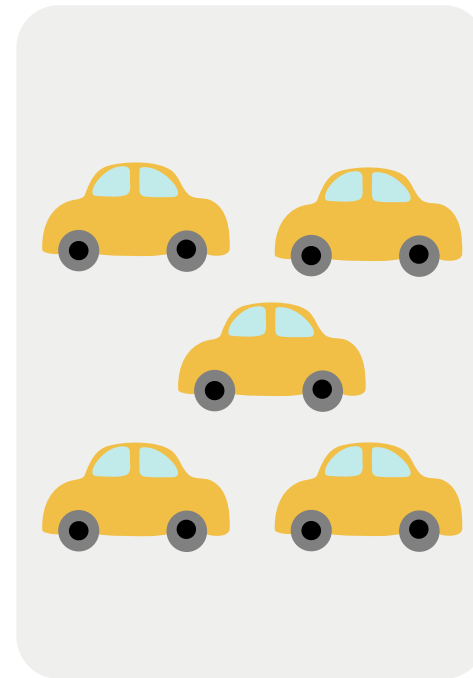
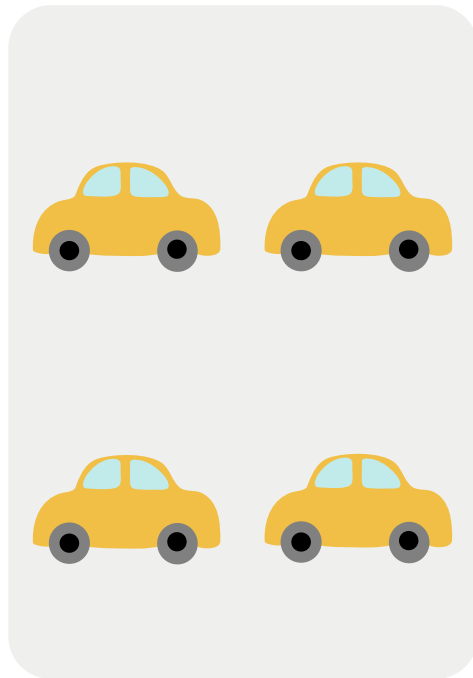
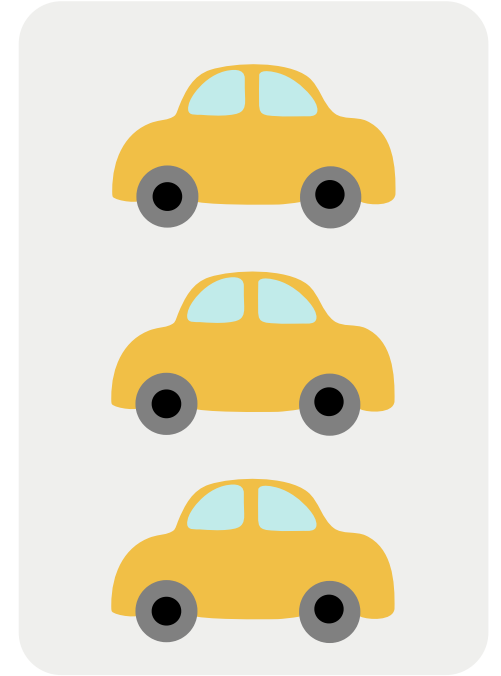
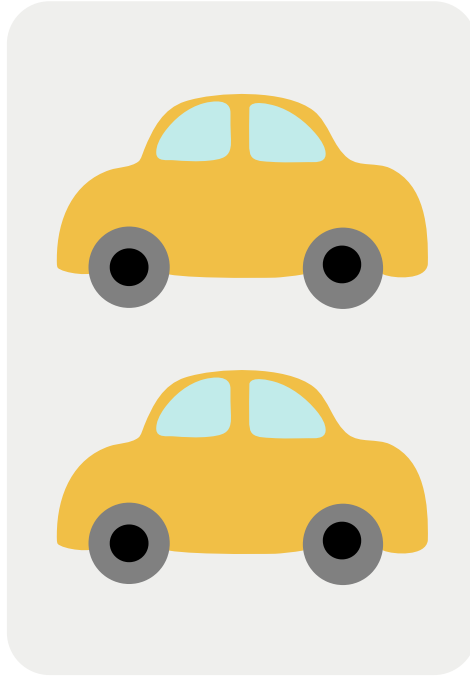
### Set-up:

- Print and cut out the counting challenge cards.
- Place the toy cars or car-shaped counters nearby.

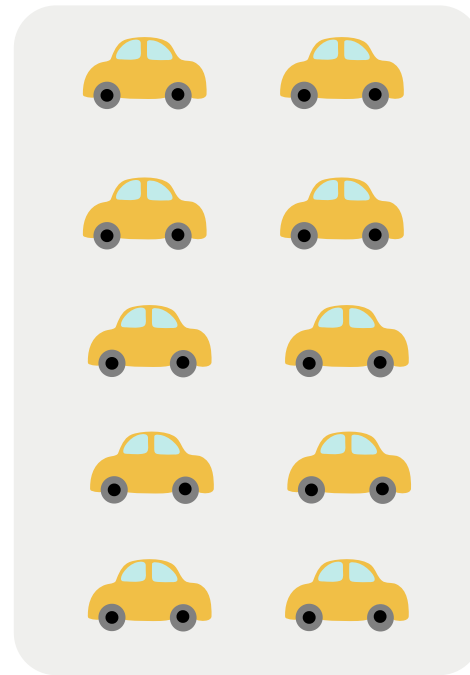
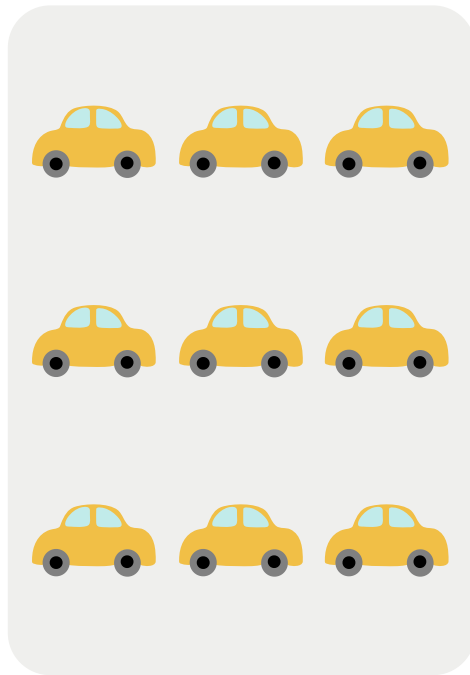
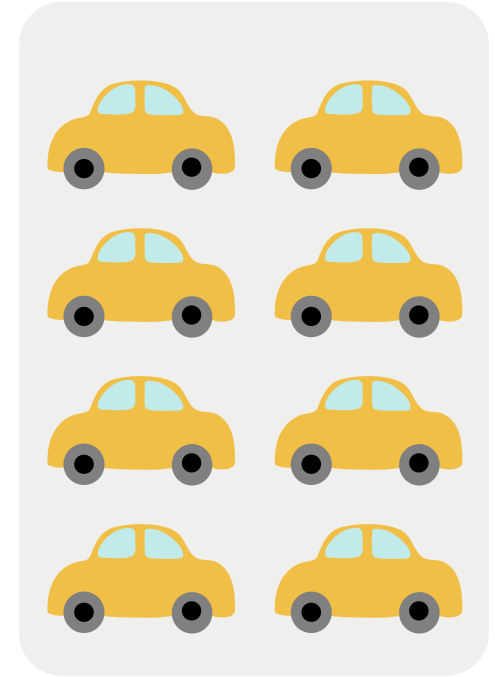
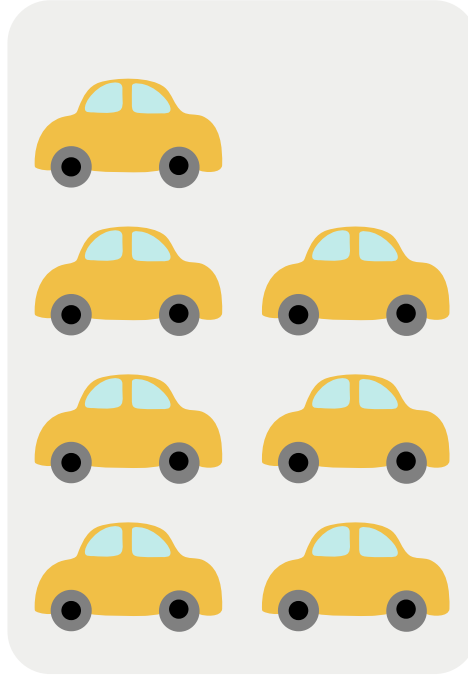
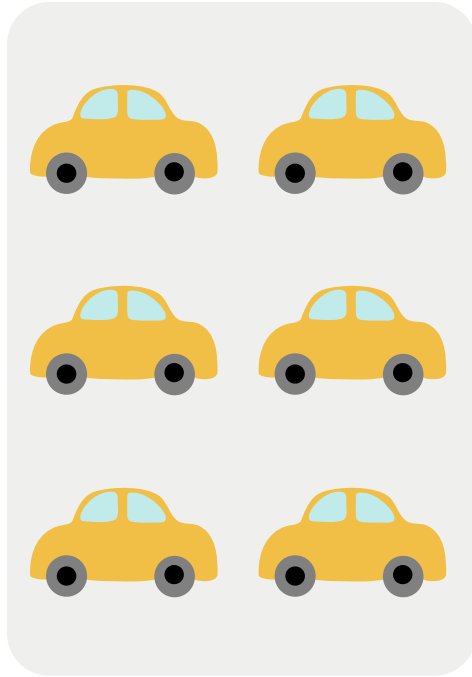
### How to play:

- a. Select a counting challenge card and show it to the child.
- b. Ask the child to count the number of cars on the card.
- c. Encourage them to use the toy cars or car-shaped counters to represent the quantity.
- d. Assist the child in counting accurately and confirming the answer.

# Counting challenge cards - print and cut



# Counting challenge cards - print and cut



# Race Car Addition and Subtraction

## Activity 2



**Objectives:** To practice basic addition and subtraction skills through a car-themed math challenge.

**Key Learning Areas:** Mathematics

**Areas:**

**Materials:** Printable addition and subtraction challenge cards, paper and pencil for calculations

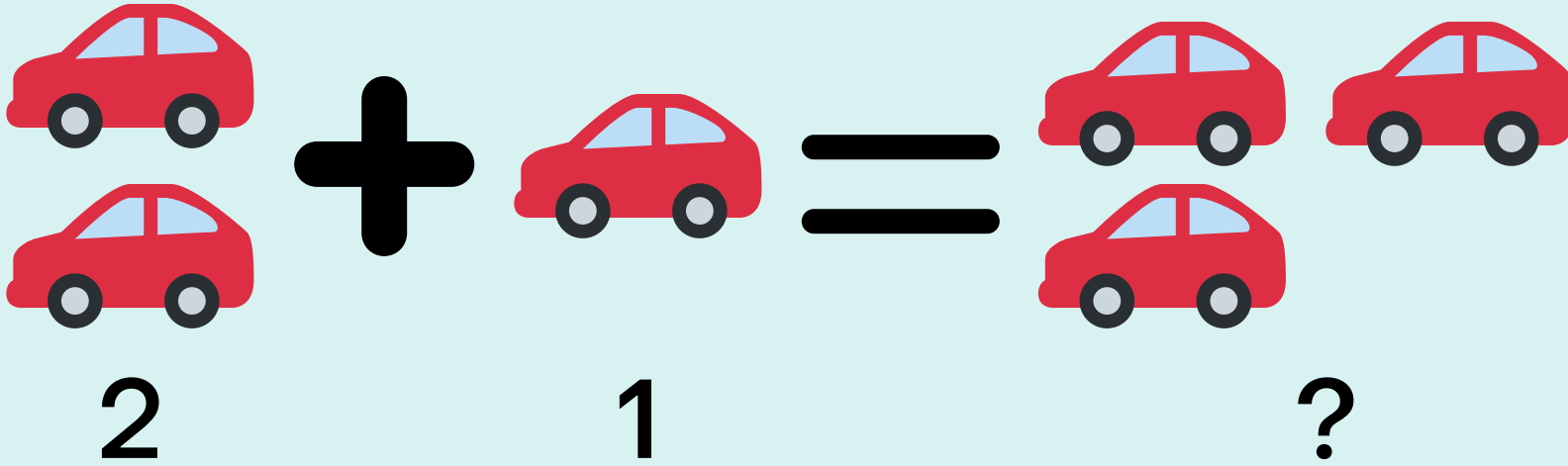
### Set-up:

- Print and cut out the addition and subtraction challenge cards.
- Provide a pen or pencil for calculations.

### How to play:

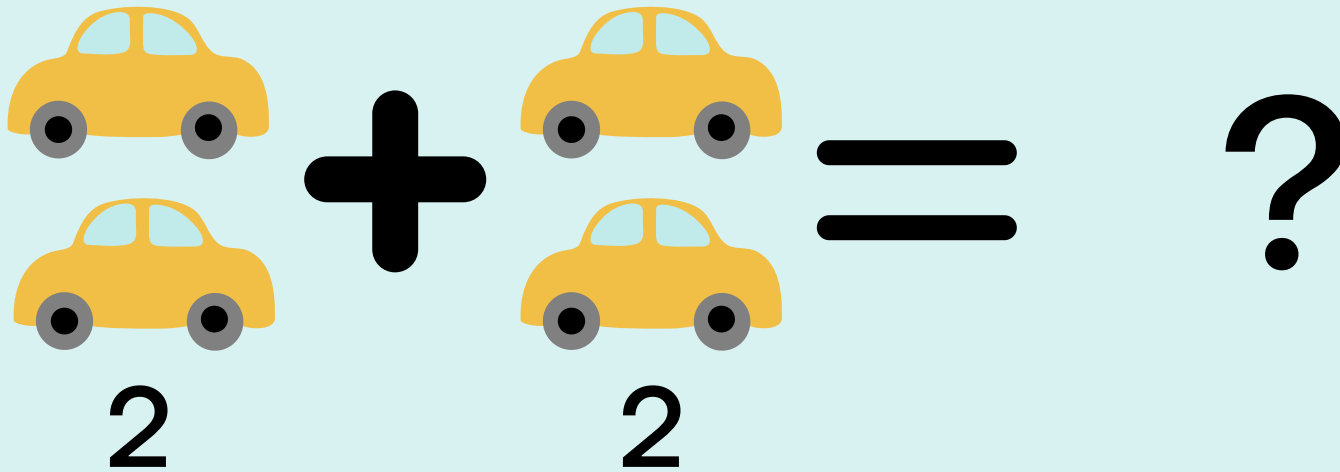
- a. Select an addition or subtraction challenge card and read it aloud to the child.
- b. Ask the child to perform the addition or subtraction calculation based on the car-themed problem.
- c. Assist the child in performing the necessary calculations and finding the solution.
- d. Discuss the answer and the steps taken to solve the problem.

# Addition and subtraction challenge cards



2 + 1 = ?

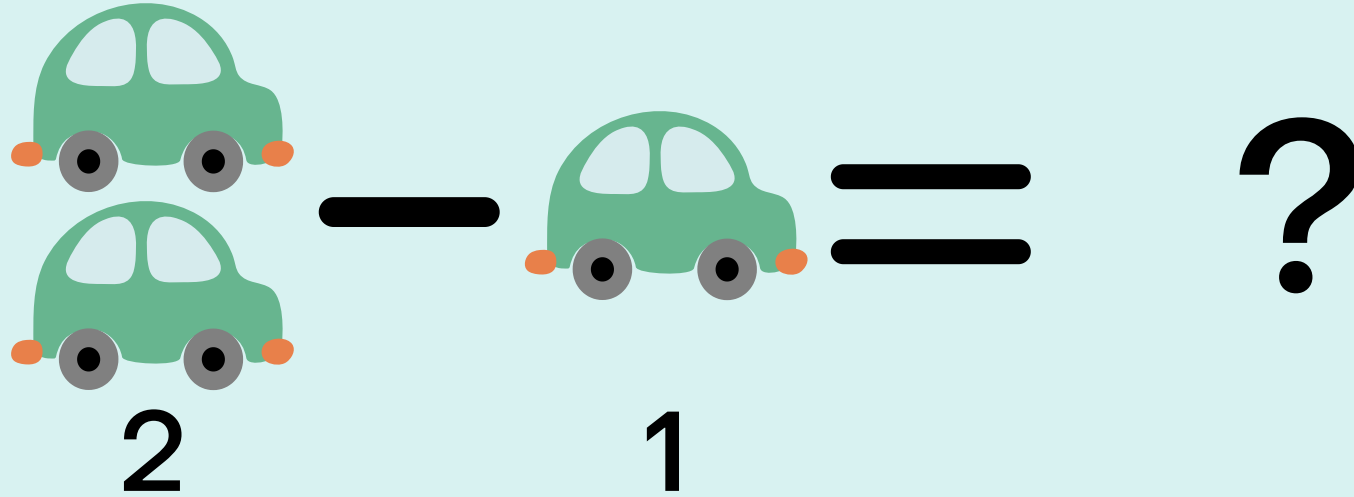
This challenge card features a light blue background. On the left, two red cars are stacked vertically above the number '2'. A large black plus sign is in the center. To its right is one red car above the number '1'. A large black equals sign follows. On the right side of the equals sign, two red cars are stacked vertically above a question mark '?'.



2 + 2 = ?

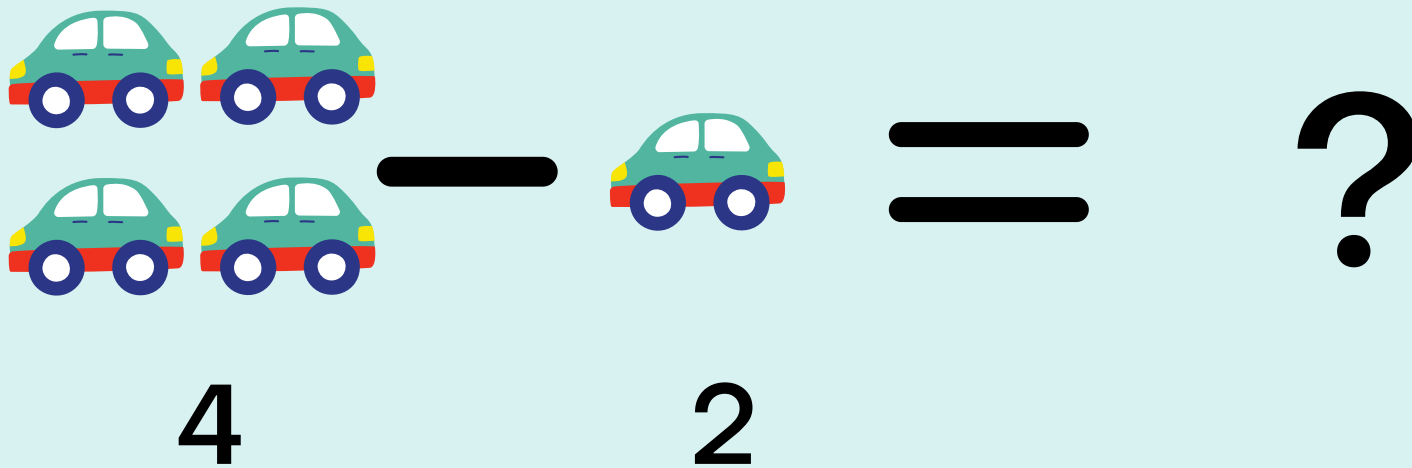
This challenge card features a light blue background. On the left, two yellow cars are stacked vertically above the number '2'. A large black plus sign is in the center. To its right are two yellow cars stacked vertically above the number '2'. A large black equals sign follows, and to its right is a large black question mark '?'.

Addition and subtraction challenge cards



A subtraction problem using green cars. On the left, two green cars are stacked vertically, with the number '2' below them. A minus sign is to the right. In the middle, one green car is shown, with the number '1' below it. An equals sign is to the right, followed by a large question mark.

$$2 - 1 = ?$$



A subtraction problem using multi-colored cars. On the left, four cars are arranged in a 2x2 grid, with the number '4' below them. A minus sign is to the right. In the middle, one multi-colored car is shown, with the number '2' below it. An equals sign is to the right, followed by a large question mark.

$$4 - 2 = ?$$

# Shape Race Attributes Challenge

## Activity 3



**Objectives:** To develop shape recognition and attributes understanding through a car-themed attributes challenge.

**Key Learning Areas:** Mathematics

**Materials:** Printable attributes challenge cards

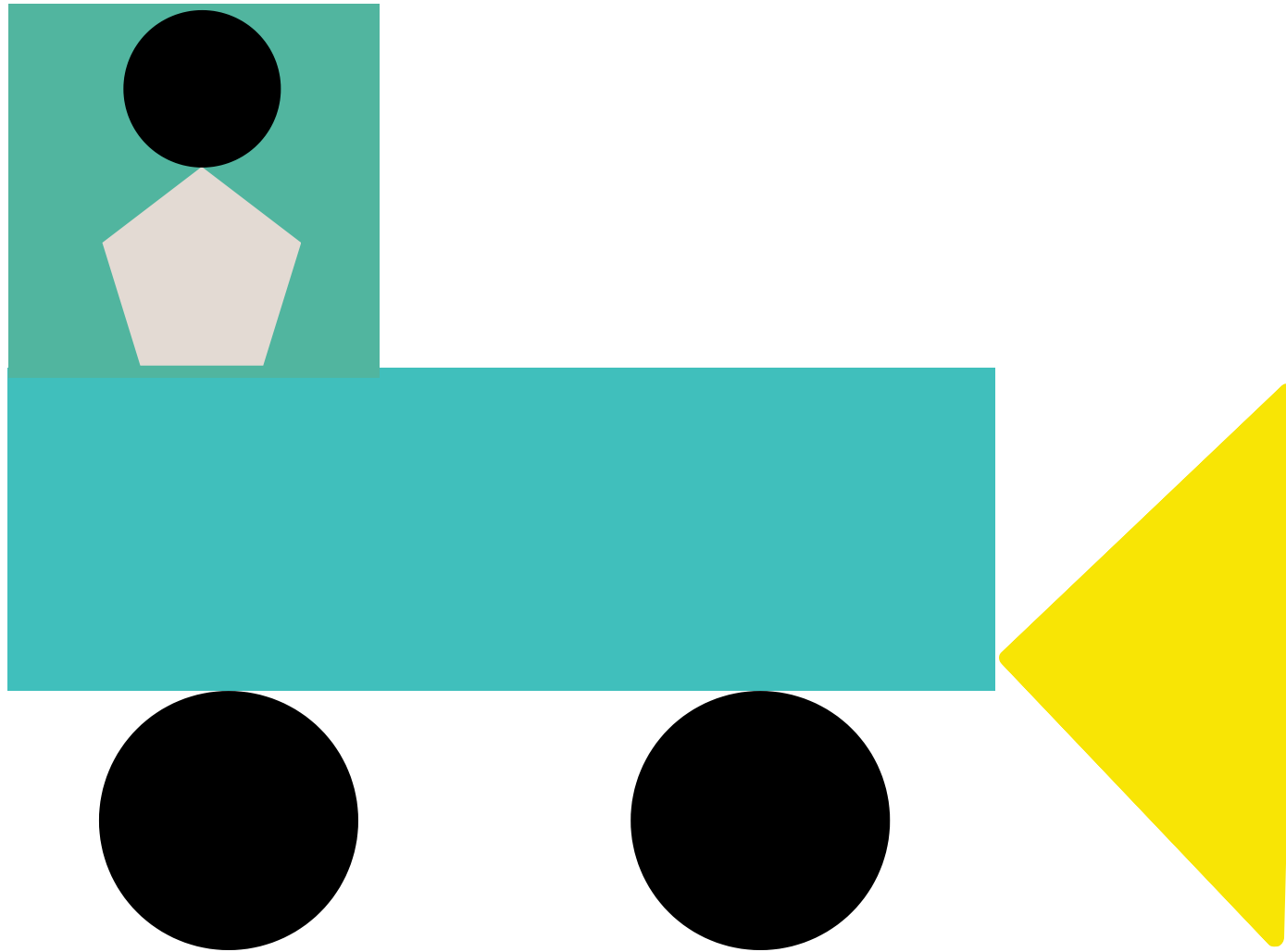
### Set-up:

- Print out the shape attribute cards

### How to play:

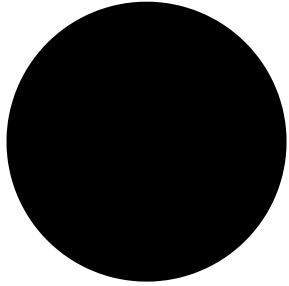
- a. Select a shape from card 2 and show it to the child.
- b. Ask the child to identify the shape shown on and describe its attributes (e.g., number of sides, corners, etc.). Have him/her locate the shape on card 1.
- c. Engage the child in a discussion about the attributes of different shapes.

# Shape attribute card 1





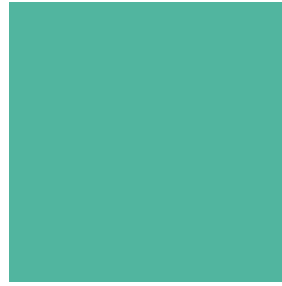
## Shape attribute card 2



Shape: Circle

Attributes:

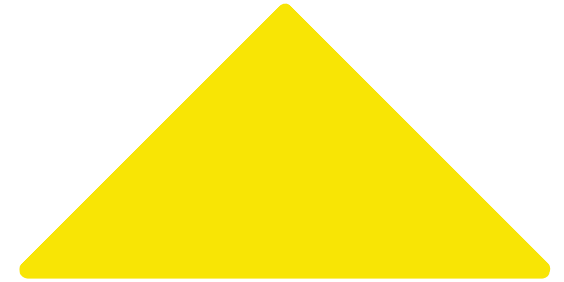
- Number of sides: 0
- Number of corners: 0
- Type of angles: No angles, all points are equidistant from the center



Shape: Square

Attributes:

- Number of sides: 4
- Number of corners: 4
- Type of angles: All angles are right angles



Shape: Triangle

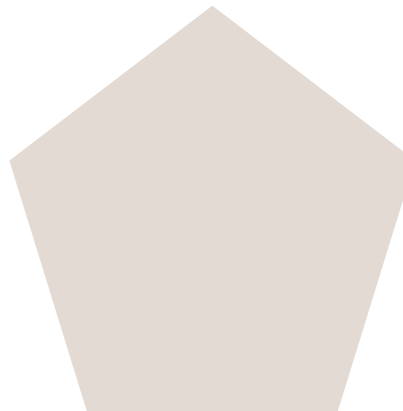
Attributes:

- Number of sides: 3
- Number of corners: 3
- Type of angles: All angles are acute



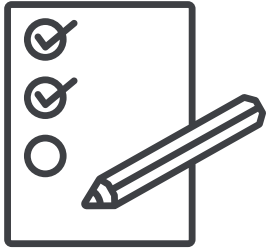
Shape: Rectangle Attributes:

- Number of sides: 4
- Number of corners: 4
- Type of angles: Opposite angles are equal, all angles are not right angles



Shape: Pentagon Attributes:

- Number of sides: 5
- Number of corners: 5
- Type of angles: All angles are acute



# CARS MATH ACTIVITIES



## Recap Checklist

Discuss with your child the following points

### Activity 1: Number Race Counting Challenge

- Which numbers did you count in the Number Race activity?
- Can you recall how you counted the cars or objects for each number?
- How did it feel to count and identify the numbers as you moved the cars?

### Activity 2: Race Car Addition and Subtraction

- Which addition and subtraction challenges did you solve?
- Can you remember the steps you took to solve each problem?
- How did it feel to use addition and subtraction to solve race car-themed problems?

### Activity 3: Shape Race Attributes Challenge

- Which shapes did you explore in the Shape Race activity?
- Can you describe the attributes or characteristics of each shape?
- How did it feel to recognize shapes and their attributes while playing the race car game?

