

# Road Trip Math Worksheet

## Understanding the Basics

When planning a road trip, we use three important ideas:

Distance = how far you travel (miles)

Time = how long it takes (hours)

Speed = how fast you travel (miles per hour or mph)

### Key Formulas:

Speed = Distance  $\div$  Time

Distance = Speed  $\times$  Time

Time = Distance  $\div$  Speed



Try It:

1. If you travel 100 miles in 2 hours, what is your speed?
2. If your speed is 60 mph, how far do you go in 3 hours?
3. If you travel 200 miles at 50 mph, how long does it take?

## Plan Your Road Trip

### Step 1: Choose Your Trip

Starting City: \_\_\_\_\_

Destination: \_\_\_\_\_

Total Distance: \_\_\_\_\_ miles

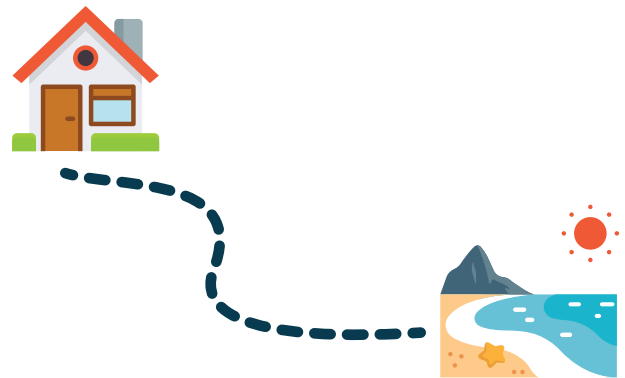
### Step 2: Driving Details

Average Speed: \_\_\_\_\_ mph

Estimated Driving Time: \_\_\_\_\_ hours

(Estimated Driving Time = Distance  $\div$  Speed)

Show your work:



### Step 3: Break Time!

Drivers need breaks to stay safe.



Number of breaks: \_\_\_\_\_

Minutes per break: \_\_\_\_\_

Total break time (in minutes):

Convert to hours:

### Step 4: Total Trip Time

Driving time: \_\_\_\_\_ hours

Break time: \_\_\_\_\_ hours

Total trip time: \_\_\_\_\_ hours

## Reflection Questions

Why is it important to estimate your travel time before a trip?

What might cause your actual travel time to be longer than your estimate?

## Challenge Question: Fuel Planning

Car gets: \_\_\_\_\_ miles per gallon

Total distance: \_\_\_\_\_ miles

How many gallons of gas will you need?

