

# *Estimation Speedway*



### Players:

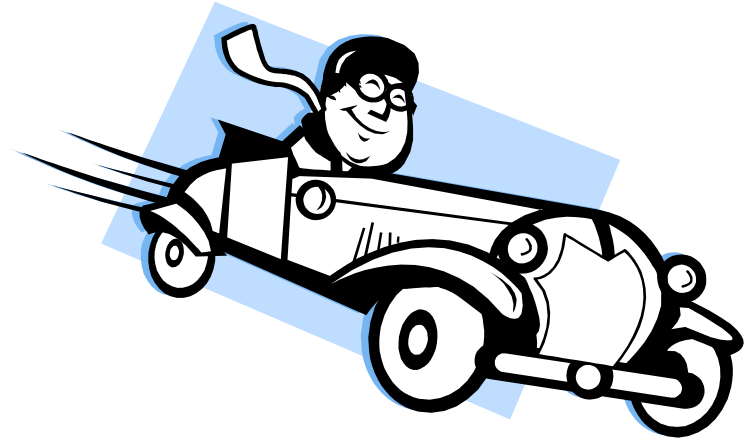
*Two teams (unlimited # of students per team)*

*1 announcer*

### Materials:

*Game Cards*

*Number Cube*



### Directions for Play:

- ★ *The announcer chooses a game card from the envelope and reads the problem aloud.*
- ★ *Team one estimates the answer to the problem. Team collaboration is allowed, but is limited to 30 seconds. Then, they find the exact answer to the problem.*
- ★ *If the exact answer is correct (as deemed by the announcer), Team one rolls the number cube. If the number rolled is an even number, the team's car moves one space. If the number rolled is odd, the car moves two spaces.*
- ★ *Team two continues in the same manner.*
- ★ *Play continues until one team reaches the finish line.*

A race car travels at 175 mph. How long will it take the driver to complete a 500 mile race?

Bob has to travel 6 miles to work. He has to be at work in 5 minutes. If he drives the speed limit of 45 mph will he make it in time?

It takes 15.4 gallons of paint to paint one section of seats at the stadium. How many gallons will be needed to paint 12 sections?

Joe wants to run 1,000 miles in a year. If he runs 3.2 miles a day will he make his goal?

A dog eats 3 cans of food a week. Jars are sold in packages of 8. About how many packages will he need for 6 months worth of food?

If a car gets 25 miles per gallon of gas, how many gallons will it take to go 482 miles?

Boy Scouts are collecting money for camp. It will cost the troop \$346 to go. There are 12 boys in the troop. How much will each boy need to raise?

A soda company makes 509 bottles a minute. How many bottles will they make in an 8 hour day?

A baby eats 9.5 ounces of food 6 times a day. About how many ounces will he eat in a week?

Sam is selling lemonade to earn money for a bike that costs \$249. He sells 278 glasses of lemonade for \$0.75. Does he have enough money to buy his bike?

If company A has 24 workers who work 8 hours each, and company B has 32 employees who work 6.5 hours each, which company's employees work more?

Grandma gave me a 50 dollar bill for my birthday. I want to buy a CD that costs \$15.92, a shirt for \$24.76, and a pair of shoes that are on sale for \$8.86. Do I have enough money? ( tax is included)

A machine makes 6 gallons of ice cream a minute. How many gallons does it make in 75 minutes?

A college's rushing yards record is 5500. This year they plan to break that record. How many yards do they need to average in each of their 12 games?

A copy machine makes 15 copies every 2.5 seconds. How long will it take me to run 120 copies?

14 band members want to order a pizza. If each one wants 3 slices and there are 8 slices in each pizza, will 6 pizzas be enough?

If Ricky Bobby gets his prescription of 100 pills filled on May 1<sup>st</sup> and has to take one a day, when will he need to refill his prescription?

A man gets a speeding ticket on June 22<sup>nd</sup>. He has 60 days to pay. When will he need to mail his check if the mail takes 3 days to get to the courthouse?

A car leaves Kansas City at noon, and travels 62 miles per hour. When will they arrive in St. Louis, which is 220 miles away?

It takes 19.8 gallons of water to water one section of grass at the stadium. How many gallons will be needed to water 24 sections?

A puppy eats 2 and  $\frac{1}{3}$  cups of food every day. There are 200 cups in a bag. How long will the bag last?

On a map a circle is drawn where Kansas City and Lawrence are the two furthest point from each other and they are 30 miles apart. About how big is the circle?

Jim is working on a project and needs to buy nails. He needs to use 7 nails per board, and it will take 149 boards to finish the project. Nails are sold in boxes of 250, how many boxes does he need?

If it takes 4 seconds to fill a cup of soda from a fountain, how many cups can be filled in a one and a half minutes?

# ANSWER Key!!!

A race car travels at 175 mph. How long will it take the driver to complete a 500 mile race?

Approx. 3 hours

Bob has to travel 6 miles to work. He has to be at work in 5 minutes. If he drives the speed limit of 45 mph will he make it in time?

No

It takes 15.4 gallons of paint to paint one section of seats at the stadium. How many gallons will be needed to paint 12 sections?

Approx. 18 gallons

Joe wants to run 1,000 miles in a year. If he runs 3.2 miles a day will he make his goal?

Yes

A dog eats 3 cans of food a week. Jars are sold in packages of 8. About how many packages will he need for 6 months worth of food?

10

If a car gets 25 miles per gallon of gas, how many gallons will it take to go 482 miles?

Approx. 20

Boy Scouts are collecting money for camp. It will cost the troop \$346 to go. There are 12 boys in the troop. How much will each boy need to raise?

Approx. 28

A soda company makes 509 bottles a minute. How many bottles will they make in an 8 hour day?

Approx. 240,000

A baby eats 9.5 ounces of food 6 times a day. About how many ounces will he eat in a week?

410-430

Sam is selling lemonade to earn money for a bike that costs \$249. He sells 278 glasses of lemonade for \$0.75. Does he have enough money to buy his bike?

Yes

If company A has 24 workers who work 8 hours each, and company B has 32 employees who work 6.5 hours each, which company's employees work more?

B

Grandma gave me a 50 dollar bill for my birthday. I want to buy a CD that costs \$15.92, a shirt for \$24.76, and a pair of shoes that are on sale for \$8.86. Do I have enough money? ( tax is included)

Yes

A machine makes 6 gallons of ice cream a minute. How many gallons does it make in 75 minutes?

450

A college's rushing yards record is 5500. This year they plan to break that record. How many yards do they need to average in each of their 12 games?

Approx.

A copy machine makes 15 copies every 2.5 seconds. How long will it take me to run 120 copies?

20 sec.

14 band members want to order a pizza. If each one wants 3 slices and there are 8 slices in each pizza, will 6 pizzas be enough?

yes

If Ricky Bobby gets his prescription of 100 pills filled on May 1<sup>st</sup> and has to take one a day, when will he need to refill his prescription?

Avg. 10

A man gets a speeding ticket on June 22<sup>nd</sup>. He has 60 days to pay. When will he need to mail his check if the mail takes 3 days to get to the courthouse?

Avg. 18

A car leaves Kansas City at noon, and travels 62 miles per hour. When will they arrive in St. Louis, which is 220 miles away?

Avg. 3.5

It takes 19.8 gallons of water to water one section of grass at the stadium. How many gallons will be needed to water 24 sections?

Approx. 480

A puppy eats 2 and  $\frac{1}{3}$  cups of food every day. There are 200 cups in a bag. How long will the bag last?

Approx. 85

On a map a circle is drawn where Kansas City and Lawrence are the two furthest point from each other and they are 30 miles apart. About how big is the circle?

Approx. 95 miles around

Jim is working on a project and needs to buy nails. He needs to use 7 nails per board, and it will take 149 boards to finish the project. Nails are sold in boxes of 250, how many boxes does he need?

5

If it takes 4 seconds to fill a cup of soda from a fountain, how many cups can be filled in a one and a half minutes?

22.5