



# INDYCAR EQUATIONS

The Indy 500 is an incredible race! Figure out the facts below to see for yourself. Then read the blog to check your facts.



500 MILES/INDY 500	2.5 MILES/LAP	2 MILES/GALLON	
\$2.49 PER GALLON	40 SECONDS/LAP	7 SECONDS/PIT STOP	18.5 GALLONS/TANK

1. How many laps does each car complete in the Indy 500?

$$\frac{\text{MILES/INDY 500}}{\text{MILES/LAP}} = \text{LAPS}$$

2. How many gallons of gas does it take an Indy Car to complete the Indy 500?

$$\frac{\text{MILES/INDY 500}}{\text{MILES/GALLON}} = \text{GALLONS}$$

3. How much money does it cost to fuel an IndyCar for the Indy 500?

$$\frac{\text{GALLONS /INDY 500}}{\text{PRICE/GALLON}} = \$ \text{_____}$$

4. How many miles can an IndyCar travel between pit stops?

$$\frac{\text{GALLONS/TANK}}{\text{MILES/GALLON}} = \text{MILES}$$

5. How many pit stops does an IndyCar have to make during the Indy 500?

$$\frac{\text{MILES/INDY 500}}{\text{MILES BETWEEN STOPS}} = \text{PIT STOPS}$$

6. How many seconds can an IndyCar driver drive between pit stops ?

$$\frac{\text{MILES BETWEEN STOPS}}{\text{SECONDS/LAP}} = \text{SECONDS}$$

7. How many seconds do the pit stops add to an IndyCar's race?

$$\text{PIT STOPS} \times \frac{\text{SECONDS /PIT STOP}}{\text{SECONDS/LAP}} = \text{SECONDS}$$

8. CHALLENGE QUESTION: How long would it take to complete the Indy 500 if your average lap pace is 40 seconds? (HINT: Don't forget to factor in pit stops!)

**BONUS: WHO DO YOU THINK WILL WIN THIS YEAR'S INDY 500?**

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