

Formula 1



1) The amount of fuel (in litres) a race car needs is given by

$$\text{Amount of fuel} = \text{no. of laps left} \times 2$$

How many litres are needed if there are:

- a) 3 laps left? b) 5 laps left? c) 10 laps left? d) 12 laps left? e) 18 laps left?

2) The amount of downforce created by the rear wing of the car is given by

$$\text{Amount of downforce} = \text{speed} \times 4$$

How much downforce is generated if the car is travelling at

- a) 20mph? b) 50mph? c) 70mph? d) 120mph? e) 160mph?

3) The difficulty rating of a track is given by:

$$\text{Race difficulty rating} = \text{no. of corners} \times 7$$

What would the difficulty rating of a track be if it had:

- a) 5 corners? b) 8 corners? c) 10 corners? d) 12 corners? e) 15 corners?

4) The stopping distance (in metres) of an F1 car is given by:

$$\text{Stopping distance} = \text{speed} + 50$$

What is the stopping distance of a car travelling at:

- a) 30mph? b) 60mph? c) 75mph? d) 115mph? e) 175mph?

5) The time taken for a pitstop (in seconds) is given by:

$$\text{Total time} = \text{no. of tyres changed} \times 3 + 10 \text{ seconds}$$

How long would the pitstop take they change:

- a) 1 tyre? b) 2 tyres? c) 3 tyres? d) 4 tyres? e) 0 tyres?

6) The number of fans (in millions) a driver has is given by:

$$\text{No. of fans} = \text{no. of wins} \times 10 + 12$$

How many fans would a driver have if he had won:

- a) 3 races b) 7 races c) 8 races d) 9 races e) 12 races

7) The amount of tax a driver pays (in £) every week is given by:

$$\text{Amount of tax} = \text{Pay} \div 5 + 300$$

How much tax would a driver pay if his weekly pay was

- a) £5000? b) £10'000? c) £20'000? d) £40'000? e) £100'000?

