

## How much does a delivery driver earn a day?

### Background information

Priya has started as a new coordinator at a logistics company in charge of delivery drivers. They need to create a computer program to help work out how much to pay the drivers at the end of each day. The company has a pay model that will pay the lower of two values. One value is calculated using the time worked at a rate of £11.44 per hour. The other value is a payment of £0.30 for each parcel delivered. The company needs to calculate both values. The driver is paid the lower of the two values.

The following rules should apply to the program:

- The user must be able to input:
  - the number of hours a driver works in a day
  - the number of parcels a driver has delivered in a day
- The program should calculate:
  - the amount of pay based on a rate of £11.44 per hour worked
  - the amount of pay based on the number of parcels delivered at £0.30 per parcel
- The driver receives a payment of the lower of the two calculations

### Your task

Create a program using Python that enables the user to:

- input the number of hours worked and the number of parcels delivered as a decimal
- use the output to pay the drivers the correct amount of wages.

The program needs to:

- calculate number of hours x £11.44
- calculate number of parcels x £0.30
- work out which calculation is lower and output the lower value
- consider the user experience to create a suitable visual output.

Areas to consider which will help write the program:

- What are the inputs being asked for?
- How will you store the inputs?
- What data type should the inputs be?
- What is being output?
- What format will the output be in?
- What calculations need to take place?
- How will the program work out which calculation is the lower value?

## Program Plan

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Use the space below to plan your program and then create the algorithm before you start programming.

### Test your program

The table below contains the details of 4 drivers for one day. Once you have created the program, use this data to manually calculate the expected outcome. Then test your program to ensure it runs as expected and there are no bugs. Debug any errors.

Test input	Expected outcome	Actual outcome from program	Any action
<b>Driver 1</b> Hours = 3 Parcels = 50	Hours = $3 * 11.44 = 34.32$ Parcels = $50 * 0.30 = 15$  Parcels is lower and would be output.		
<b>Driver 2</b> Hours = 8 Parcels = 325	Hours = $8 * 11.44 = 91.52$ Parcels = $325 * 0.30 = 97.50$  Hours is lower and would be output.		
<b>Driver 3</b> Hours = 6 Parcels = 263	Hours = $6 * 11.44 = 68.64$ Parcels = $263 * 0.30 = 78.90$  Hours is lower and would be output.		
<b>Driver 4</b> Hours = 5.5 Parcels = 125	Hours = $5.5 * 11.44 = 62.92$ Parcels = $125 * 0.30 = 37.50$  Parcels is lower and would be output.		

**Possible program solution**

```
print("-----")
print("Enter the drivers number of working hours and parcels for today")
print("-----")

number_of_hours = float(input("Enter drivers work hours: "))
parcels_delivered = float(input("Enter parcels delivered: "))

wages_hours = number_of_hours * 11.44
wages_parcels = parcels_delivered * 0.30

if wages_hours < wages_parcels:
    print("The drivers wages are £ ", wages_hours)
else:
    print("The drivers wages are £ ", wages_parcels)
```