

Wages and Fractions – ANSWERS

1. Jimmy usually gets paid £23.21 per hour for a 35 hour week. Overtime is paid at time and a half. Jimmy works a total of $42\frac{1}{4}$ hours this week.

How much does Jimmy earn extra that week in total including overtime?

Take each step at a time.

STEP ONE Usual week is $35 \times 23.21 = £812.35$

STEP TWO Overtime Rate: Overtime rate is the usual $23.21 \times 1.5 = £34.82$ per hour
(Note: $\frac{1}{2}$ in decimal is 0.5 being 1 divided by 2. We could just add this onto the usual hourly rate or we can just use 1 to calculate out the usual by itself – anything times by 1 is itself and it is time and a half being 1.5)

STEP THREE Calculate the overtime money: $7\frac{1}{4}$ hours overtime is $7.25 \times 34.82 = £252.45$

STEP FOUR Total earned is usual wage of £812.35 add overtime £252.45 = £1,064.80

ANSWER: Total earned including overtime is £1,064.80

The overtime part of that is £252.45

2. Josie works part-time as a waiter during the evenings at a rate of £17.49 per hour for 8 hours per week. Overtime is accepted, Josie works an additional $4\frac{1}{2}$ hours in addition to the normal contracted hours for the week. Overtime is paid at time and a quarter.

How much in total does Josie earn this particular week?

Again, take each step at a time, calculating each part to total and find out the last part of the question at the end.

8 hours $\times$ £17.49 = £139.92 is the usual weekly wage without overtime.

Overtime rate is $£17.49 \times 1$ and $\frac{1}{4}$ (a quarter) ... therefore, $£17.49 \times 1.25 = £21.86$
(Note: a quarter as a decimal is 0.25 plus adding on time itself as a 1, meaning 1.25 is time and one quarter, saves working out the additional quarter and adding it onto the standard – you can do it that way as well)

Overtime payment would be 4.5 hours $\times$ £21.86 being the overtime rate = £98.37

Josie earns a total of £139.92 plus £98.37 = £238.29

ANSWER: Usual earnings is £139.92 the extra is £98.37 and the total earnings is £238.29