**Problem-Solving with Worded Formulae (Print to A3)**

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| Here is information about the cost of sending a parcel to Europe by Parcel Link.   |  |  | | --- | --- | | Next day delivery | £19.00  **Plus**  70p for each kg more than 5 kg | | 3 day delivery | £16.00  **Plus**  50p for each kg more than 5 kg |   Kate is going to send a parcel to Europe by Parcel Link. The parcel weighs 12 kg. Kate can send the parcel using next day delivery or using 3 day delivery.  (a)  Work out the difference in the two costs.    £...........................................................  **(3)**  Adam sends a parcel to Europe by Parcel Link. He uses 3 day delivery. The cost is £25  (b)  Work out how many kilograms Adam's parcel weighs.    ........................................................... kg  **(3)**  **(Total for question = 6 marks)** | Angela and Michelle both work as waitresses at the same restaurant. This formula is used to work out the total amount of money each waitress gets.   |  | | --- | | **Total amount** = £6.50 x number of hours worked + tips |   The table shows the number of hours Angela and Michelle each worked last Saturday. It also shows the tips they got.   |  |  |  | | --- | --- | --- | |  | **Number of hours worked** | **Tips** | | **Angela** | 8 | £12 | | **Michelle** | 7 | £15 |   Who got the higher total amount of money last Saturday?  You must show clearly how you got your answer.  **(Total for question = 4 marks)** | You can use these rules to change temperatures from °C to °F.   |  |  | | --- | --- | | **Approximate rule** | Multiply the °C temperature by 2 and then add 30 | | **Exact rule** | Multiply the °C temperature by 1.8 and then add 32 |   Amy uses the **approximate rule** to change 20°C to °F. Dan uses the **exact rule** to change 20°C to °F.  (a) Work out the difference between Amy's result and Dan's result.  ...........................................................°F  **(4)**  Jade uses the **approximate rule** to change a temperature from °C to °F.  The result is 110°F.  (b) What °C temperature did Jade change to °F?  ...........................................................°C  **(3)**  **(Total for question = 7 marks)** |