## Formulae 51-53, National 4

1. The cost of hiring a car is given below

$$Cost = £50 + (number of days x £21)$$

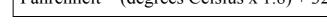
- (a) Find the cost of hiring a car for (i) 5 days
- (ii) a week.
- (b) Mr. Brown has £260 to spend on hiring as car. For how many days can he hire a car?
- 2. The cost of hiring a cement mixer is

$$Cost = £25 + (number of days x £7.50)$$



- (a) Find the cost of hiring the cement mixer for
- (i) 4 days
- (ii) 10 days.
- (b) The cement is hired and the cost is £115. How many days is it hired for?
- 3. To change degrees Celsius into degrees Fahrenheit we use

Fahrenheit = 
$$(degrees Celsius \times 1.8) + 32$$



- (a) Change 20 degrees Celsius into degrees Fahrenheit.
- (b) Change 77 degrees Fahrenheit into Celsius?
- 4. To join a gym the cost is given by

$$Cost = £35 + (number of sessions x £4.50)$$

- (a) Find the cost of using the gym for (i) 14 sessions (ii) 30 sessions.
- (b) Amanda spent a total of £125 at the gym. How many sessions did she have?
- 5. A music downloading site charges its users as follows

Cost = (number of tracks 
$$x \pm 0.65$$
) +  $\pm 15$ 



- (ii) 200 tracks? (a) How much would it cost to download (i) 80 tracks?
- (b) Michael spent £106 on downloading tracks. How many tracks did he download?



- (a) Calculate the bill if 2400 units are used.
- (b) A bill totals £130. How many units were used?
- 7. John is a member of a ten-pin bowling club. His annual membership costs are

$$Cost = £22 + (number of games x £4.50)$$



- (a) Calculate the cost of playing (i) 28 games.
- (ii) 40 games.
- (b) John paid a total of £382 at the bowling club one year. How many games did he play that year?
- 8. The cost of hiring a tree pulping machine is

$$Cost = £15 + (number of days x £6.75)$$

- (a) How much would it cost to hire the machine for (i) 3 days (ii) a fortnight
- (b) Laura paid £55.50 hiring the pulping machine. How many days did she hire it for?
- 9. To hire a bouncy castle costs as follows



- (a) How much would it cost to hire the bouncy castle for (i) 2 hours (ii) 8 hours
- (b) Sidra has £56 to spend on hiring a bouncy castle. How long can she hire the bouncy castle for?
- 10. A stretch limousine can be hired for the following costs

$$Cost = £60 + (number of hours x £12)$$



- (a) How much would it cost to hire a limousine for 5 hours?
- (b) David has £200 to spend on hiring a limousine. How many hours can he hire it for?