

Using Formulae - 2

1) I hire a mixer for £10 per day plus £30 delivery. How much would it cost for:

- a) 1 day
- b) 5 days
- c) 7 days
- d) Write a rule of how to find the total cost.
This can be in words or numbers.
See if another member of the class can use your rule.



2) I get my photos printed at a cost of 7p each plus £2.50 P&P. How much will it cost to print off :

- a) 1 photo
- b) 20 photos
- c) 50 Photos
- d) Write a rule to work out the cost
Check that your rule works by checking your answer with a calculator.

3) I have to cook a turkey for the following time:

Total time in minutes = $20 \times \text{weight in kg} + 30$

a) How long will it take to cook a turkey weighing:

- i) 3kg
- ii) 5kg
- iii) 6.5kg



b) I have 1 hour and 50 minutes until dinner time. What is the biggest turkey I can cook for tea?

4) I am running an emergency plumbing business. I charge £24 per hour plus £60 call out fee. How much will I charge for

- a) 1 hour
- b) 4 hours
- c) 30 minutes
- d) 45 minutes
- e) 20 minutes
- f) Write a formula for my charges

5) My monthly mobile phone charges are calculated by the following formula:

Cost = $£15 + £0.20 \times \text{minutes used}$

a) How much will it cost for:

- i) 30 minutes used
- ii) 70 minutes used
- iii) 140 minutes used



b) I have £20 to spend this month. How many minutes can I afford to use?

Using Formulae - 2 **Answers**

1) I hire a mixer for £10 per day plus £30 delivery. How much would it cost for:

- a) 1 day £40
- b) 5 days £80
- c) 7 days £100
- d) Write a rule of how to find the total cost.

This can be in words or numbers.

For example: Cost in £ = 30 + (10 x d) where d = no. days hired

2) I get my photos printed at a cost of 7p each plus £2.50 P&P. How much will it cost to print off :

- a) 1 photo £2.57
- b) 20 photos £3.90
- c) 50 Photos £6.00
- d) Write a rule to work out the cost

For example: Cost in £ = 2.50 + (0.07 x n) where n = no. photos

3) I have to cook a turkey for the following time:

Total time in minutes = 20 x weight in kg + 30

a) How long will it take to cook a turkey weighing:

- i) 3kg 90 minutes
- ii) 5kg 130 minutes
- iii) 6.5kg 160 minutes

b) I have 1 hour and 50 minutes until dinner time. What is the biggest turkey I can cook for tea? 4kg (takes 110 minutes)

4) I am running an emergency plumbing business. I charge £24 per hour plus £60 call out fee. How much will I charge for

- a) 1 hour £84
- b) 4 hours £156
- c) 30 minutes £72
- d) 45 minutes £78
- e) 20 minutes £68
- f) Write a formula for my charges

For example: Cost in £ = 60 + (24 x h) where h = no. hours

5) My monthly mobile phone charges are calculated by the following formula:

Cost = £15 + £0.20 x minutes used

a) How much will it cost for:

- i) 30 minutes used £21
- ii) 70 minutes used £29
- iii) 140 minutes used £43

b) I have £20 to spend this month. How many minutes can I afford to use? 25 minutes