

Q2 (Formula) Day 14

Name: _____

1. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 10\text{p} \times \text{number of minutes used} + \text{£4}$$

a) In the first month they use **30 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £8** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

2. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 8p \times \text{number of minutes used} + \text{£6}$$

a) In the first month they use **28 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £7.20** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

3. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 4\text{p} \times \text{number of minutes used} + \text{£}3.50$$

a) In the first month they use **35 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £4.34** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

4. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 7\text{p} \times \text{number of minutes used} + \text{£}2.20$$

a) In the first month they use **53 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £5.21** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

5. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 11\text{p} \times \text{number of minutes used} + \text{£}5.10$$

a) In the first month they use **47 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £8.29** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

6. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 4.5\text{p} \times \text{number of minutes used} + \text{£}6.40$$

a) In the first month they use **52 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £6.94** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

7. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 13\text{p} \times \text{number of minutes used} + \text{£}6.31$$

a) In the first month they use **28 minutes** altogether. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £22.30** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

8. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 8p \times \text{number of minutes used} + \text{£6}$$

a) In the first month they use **50 minutes** altogether. They also receive a **10% discount** on their first bill. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £11.84** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

9. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 16\text{p} \times \text{number of minutes used} + \text{£}8$$

a) In the first month they use **48 minutes** altogether. They also receive a **50% discount** on their first bill. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £17.76** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

10. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 12\text{p} \times \text{number of minutes used} + \text{£}12$$

a) In the first month they use **64 minutes** altogether. They also receive a **25% discount** on their first bill. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £29.64** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

11. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 6\text{p} \times \text{number of minutes used} + \text{£}10$$

a) In the first month they use **85 minutes** altogether. They also receive a **20% discount** on their first bill. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £22.78** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

12. A customer goes to the phone shop. They get a contract which works out their monthly bill by using the following formula:

$$\text{Monthly bill} = 20\text{p} \times \text{number of minutes used} + \text{£}7$$

a) In the first month they use **88 minutes** altogether. They also receive a **15% discount** on their first bill. What is their **monthly** bill going to be? Write your answer in the space below.

£ _____

b) In month 2 they are **charged £90.80** for their phone bill. Using the above formula calculate the number of **minutes** they used in month 2. Write your answer in the space below.

_____ minutes

Answers

- | | |
|---------------------|--------------|
| 1. a) £7 | b)40 |
| 2. a) £8.24 | b)15 |
| 3. a) £4.90 | b)21 |
| 4. a) £5.91 | b)43 |
| 5. a) £10.27 | b)29 |
| 6. a) £8.74 | b)12 |
| 7. a) £9.95 | b)123 |
| 8. a) £9 | b)73 |
| 9. a) £7.84 | b)61 |
| 10.a) £14.76 | b)147 |
| 11.a) £12.08 | b)213 |
| 12.a) £20.91 | b)419 |