Name: _____

1. Sparkey is an electrician who charges $25 per hour plus $30 travelling charge.

(a) Complete the table below showing the charge c for working t hours.

t	1	2	3	4	5
c					

(b) Find the **rule** connecting t and c.

$c =$

(c) What is his charge for a job taking 8 hours?

2. Another electrician, Plugger, charges $30 per hour with no travelling charge.
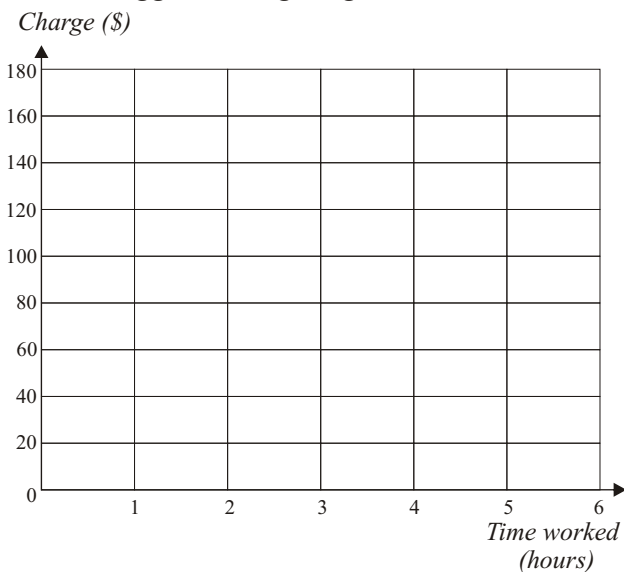
(a) Complete this table showing Plugger's charges.

t	1	2	3	4	5
c					

(b) Find the **rule** for Plugger's charges.

$c =$

3. On the axes provided plot each of Sparkey's and Plugger's charges against time worked.

Charge ($)

Time worked (hours)

For what **length of working time** would each electrician charge the **same** amount?

4. The cost of purchasing tickets for a concert was $60 per ticket together with a $10 booking fee.

> Example: The cost of 8 tickets is
> $8 \times 60 + 10 = \$490$

(a) Complete the following table showing the cost c for purchasing n tickets.

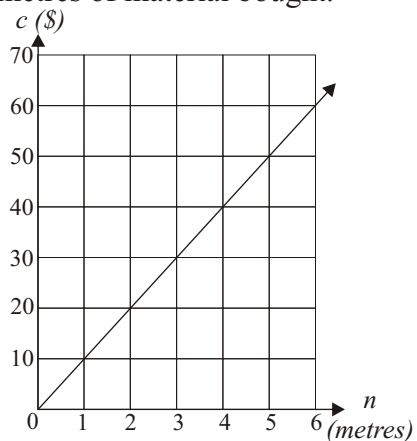| n	1	2	3	4	5
c					

(b) Find the **rule** connecting n and c.

$c =$

(c) Use this rule to find the cost of purchasing 25 tickets.

(d) How many tickets could be bought for $730?

5. The cost c in dollars of buying a length of a particular curtain material is given by the graph below, where n represents the number of metres of material bought.

c ($)

n (metres)

(a) How much would it cost to purchase 5 metres of material?

(b) Find the **rule** connecting 'n' and 'c'.

$c =$

(c) How much material could you buy for $280?