1

$$V = \frac{k}{H}$$
 where  $k$  is a constant.

Which **two** statements are correct?

Tick two boxes.

[1 mark]

${\it V}$ is directly proportional to ${\it H}$
$\it{V}$ is inversely proportional to $\it{H}$
$V$ is directly proportional to $\frac{1}{H}$
V is inversely proportional to $-$

2 Circle the equation where c is inversely proportional to d.

[1 mark]

$$c = \frac{1}{2}d$$

$$c = \frac{2}{d}$$

$$c = -2d$$

$$c = \frac{1}{2}d \qquad \qquad c = -2d \qquad \qquad c = -\frac{2}{d^2}$$

3	An electric car uses 1 unit of electricity to travel 3 miles.  1 unit of electricity costs 50 pence.				
	Work out the cost of electricity, in pounds, to travel 270 miles.	[3 marks			
	Answer f				

	Leema buys 2 metres of linen at £8.50 per metre.
	She also buys 5 metres of cotton.
	The <b>total</b> cost is £38
	What is the cost of <b>one</b> metre of cotton? [4 marks
	[+ mark
	Anguar C
	Answer £
	Buttons cost 65p each.
	The greatest number of buttons Leema can buy with £5 is 7
S	She says,
	"The greatest number of buttons I can buy with £10 is 14 because £10 is double £5"
	Is she correct?
	Tick a box.
	Yes No
	Show working to support your answer.
,	[2 marks

**5** A chef has a tub of blueberries.

She wants to

use all the blueberries

put the same number of blueberries on each dessert.

$$D = \frac{k}{b}$$

D is the number of desserts.

b is the number of blueberries on each dessert.

## 5 (a) Complete the table.

[2 marks]

b	2	6	
D	120		30

6 Tins of beans are sold in shop A and shop B.

## Shop A

1 tin 64p

Buy 4 tins for the price of 3 tins

## Shop B

1 tin 62p

Pack of 3 tins £1.70 10% reduction in price on all **packs** 

At which shop is it cheaper to buy 20 tins?					
State how much cheaper.		[5 marks]			
Shop	Cheaper by				