**Painting a bedroom**

You need to decorate and furnish a bedroom. It is the shape of a cuboid.

It has length 2.4m, width 1.9m and height 1.8m

It has a door width 1m and height 1.6m and a north facing window width 1.5m and height 1m

1.5m

1 m

1 m

1.8m

1.6m

2.4m

1.9m

How many litres of paint will you need to buy to give the walls and ceiling 3 coats of paint if the coverage is 13m**2** per litre? (Do not paint the door or window)

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**Furnishing a bedroom**

You need to furnish a bedroom

You buy a bed, a wardrobe and a chair in the sale

![C:\Users\Terrys-PC\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\ET5XB2P8\MP900442175[1].jpg]()The original prices were;

Bed £340.00

Wardrobe £289.00

Chair £85.00

The sale price is 30% off the original price

The shop offers an interest free deal of 15% deposit and 6 regular monthly payments.

Work out the cost of the deposit and each monthly payment. Show all your working.

|  |  |
| --- | --- |
| Day  | Heart rate(bpm=beats per minute) |
| 1 | 176 |
| 2 | 171 |
| 3 | 165 |
| 4 | 162 |
| 5 | 159 |
| 6 | 156 |
| 7 | 153 |
| 8 | 151 |
| 9 | 150 |
| 10 | 150 |

**Heart Rate**

Sam decides to cycle to work. Below is a record of Sam’s heart rate for the cycle ride to work for 10 days.

![C:\Users\Terrys-PC\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\YA8MCR41\MC900157283[1].wmf]()

Draw a graph to show Sam’s heart rate over the 10 days

Between which TWO consecutive days does the maximum heart rate decrease by the greatest amount?

Describe in words how the maximum heart rate changes during the course of the 10 days.

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**New Job**

![C:\Users\Terrys-PC\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\NRMLKDKL\MC900388742[1].wmf]()Sam starts a new job. A person who drives to work offers to give Sam a lift. They agree to share the petrol costs equally. The driver knows that;

The car uses 1 litre of petrol for every 9 miles

The journey distance to work is 27 miles

Petrol costs £1.35 per litre

What will be Sam’s share of the cost of petrol for the journey to work and back?

Show your working

**School trip**

A school is planning a day trip. Rules states that there must be 1 adult to every 6 children.

![C:\Users\Terrys-PC\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\0ISTEEK9\MC900347073[1].wmf]()The class has 34 children

How many adults must go on the trip?

The school will make fruit drinks to take on the trip.

The drink is made by diluting concentrated fruit juice with water in the ratio of 1:9.

If every person on the trip drinks .5 litre of the drink, how many litres of the concentrated fruit juice and how many litres of water will be required to make a sufficient quantity?

Show your working

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