1 Alison buys 2 boxes of strawberries, box A and box B.

Box **A** contains 15 strawberries. The strawberries in box **A** have a mean weight of 24 grams.

Box **B** contains 25 strawberries. The strawberries in box **B** have a mean weight of 18 grams.

Alison puts all 40 strawberries into a bowl. Work out the mean weight of the 40 strawberries.

..... grams

(Total for Question 1 is 3 marks)

2 120 children go on an activity holiday.The ratio of the number of girls to the number of boys is 3:5

On Sunday, all the children either go sailing or go climbing.

 $\frac{16}{25}$ of the boys go climbing.

Twice as many girls go sailing as go climbing.

Work out how many children go sailing on Sunday.

(Total for Question 2 is 6 marks)

3 On a farm there are chickens, ducks and pigs.

The ratio of the number of chickens to the number of ducks is 7:2The ratio of the number of ducks to the number of pigs is 5:9There are 36 pigs on the farm.

Work out the number of chickens on the farm.

(Total for Question 3 is 3 marks)

4 Jethro has sat 5 tests.

Each test was marked out of 100 and Jethro's mean mark for the 5 tests is 74 Jethro has to sit one more test that is also to be marked out of 100 Jethro wants his mean mark for all 6 tests to be at least 77 Work out the least mark that Jethro needs to get for the last test.

(Total for Question 4 is 3 marks)

5 On Wednesday, the price of 1 litre of petrol was £1.26 The price of petrol on Wednesday was 5% more than the price of petrol on the previous Monday.

Calculate the price of 30 litres of petrol on the previous Monday.

£.....

(Total for Question 5 is 3 marks)

6 Simon bought a house at the beginning of 2018 The value of Simon's house had decreased by 15% by the end of 2018

The house increased in value during both 2019 and 2020 The percentage increases in the value of the house during 2019 and 2020 were the same.

The value of Simon's house at the end of 2020 was 2.85% greater than the amount he paid for his house at the beginning of 2018

Calculate the percentage increase in the value of the house during 2019

.....%

(Total for Question 6 is 4 marks)

7 Pieter owns a currency conversion shop.

Last Monday, Pieter changed a total of 20160 rand into a number of different currencies.

He changed $\frac{3}{10}$ of the 20160 rand into euros.

He changed the rest of the rands into dollars, rupees and francs in the ratios 9:5:2

Pieter changed more rands into dollars than he changed into francs.

Work out how many more.

rand

(Total for Question 7 is 4 marks)

8 Sandeep wants to buy some packets of pens and some boxes of pencils for his stationery shop.

Each packet of pens contains 9 pens. Each box of pencils contains 12 pencils.

Each packet of pens costs £7.60 Each box of pencils costs £4.80

Sandeep can only buy full packets of pens and full boxes of pencils. He wants to buy exactly the same number of pens as pencils.

Work out the minimum amount Sandeep needs to pay.

£.....

(Total for Question 8 is 4 marks)