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- 7 30 students in a class sat a Mathematics test.  
The mean mark in the test for the 30 students was 26.8

13 of the 30 students in the class are boys.  
The mean mark in the test for the boys was 25

Find the mean mark in the test for the girls.  
Give your answer correct to 3 significant figures.

.....  
(Total for Question 7 is 3 marks)



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- 7 There are 5 cocoa pods in a bag.  
The mean weight of the 5 cocoa pods is 398 grams.

A sixth cocoa pod is put into the bag.  
The mean weight of the 6 cocoa pods is 401 grams.

Work out the weight of the sixth cocoa pod that is put into the bag.

..... grams

**(Total for Question 7 is 3 marks)**



- 8 5 children are playing on a trampoline.  
The mean weight of the 5 children is 28 kg.

2 of the children get off the trampoline.  
The mean weight of these 2 children is 26.5 kg.

Work out the mean weight of the 3 children who remain on the trampoline.

..... kg

(Total for Question 8 is 3 marks)

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- 8 There are 10 people in a lift.  
These 10 people have a mean weight of 79.2 kg.

3 of these people get out of the lift.  
These 3 people have a mean weight of 68 kg.

Work out the mean weight of the 7 people left in the lift.

.....kg

(Total for Question 8 is 3 marks)



- 8 The mean number of goals scored by a hockey team in 8 matches is 6  
The team plays 2 more matches and scores  $k$  goals in each match.  
The mean number of goals scored by the hockey team in the 10 matches is 7
- Work out the value of  $k$

$$k = \dots\dots\dots$$

(Total for Question 8 is 3 marks)



**10** Gemara works as a taxi driver.

Last week, he recorded the following information about the distances he drove.

For the 5 days from Monday to Friday, the mean number of kilometres he drove was 104

For the 7 days from Monday to Sunday, the mean number of kilometres he drove was 127

On Saturday, Gemara drove 132 kilometres.

Work out the number of kilometres he drove on Sunday.

..... kilometres

**(Total for Question 10 is 3 marks)**

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10 Team A and Team B take part in a quiz league.

After 11 rounds, Team A has a mean score per round of 17

After 9 rounds, Team B has a mean score per round of 18

Both teams take part in a further round.

After this round, both teams have a mean score per round of 18.5

In the further round, Team A scored more points than Team B.

How many more?

(Total for Question 10 is 4 marks)

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**10** 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 10 is 3 marks)

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12 Larry is a delivery man.

He has 7 parcels to deliver.

The mean weight of the 7 parcels is 2.7 kg

Larry delivers 3 of the parcels.

Each of these 3 parcels has a weight of  $W$  kg

The mean weight of the other 4 parcels is 3.3 kg

Work out the value of  $W$

$W = \dots\dots\dots$

(Total for Question 12 is 3 marks)

