

Name:

Exam Style Questions

Combined Mean



Equipment needed: Pen, Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 53a



Answers and Video Solutions



1. Walter has 5 baskets of apples.



There are 9 apples in each of three of the baskets.
There are 24 apples in each of the other two baskets.

Work out the mean number of apples per basket.

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(2)

2. There are 20 houses in Firfields and 80 houses in Meadowlands.



The mean number of cars per house in Firfields is 1.5
The mean number of cars per house in Meadowlands is 2

Work out the mean number of cars per house in both villages.

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(3)

3. In Tia's pencil case she has



- 6 pencils that have a mean mass of 7g
- 10 pens that have a mean mass of 12g
- 4 markers with a mean mass of 15g

Find the mean mass of the 20 items in Tia's pencil case.

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(3)

4. A tennis club has 165 adult and child members.



- The mean age of the 55 child members is 14 years.
- The mean age of the 110 adult members is 40.7 years

Calculate the mean age of all 165 members.

.....
(3)

5. There are 25 students in Class A and 15 students in Class B.
All 40 students sit a test.



The mean score for the students in Class A was 81%
The mean score for the students in Class B was 87%

Find the mean score of all the students.

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(3)

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6. 15 adults and 25 children complete a maze.
The length of time it took each person was recorded.



The mean time taken by all 40 people was 21 minutes.
The mean time taken by the 15 adults was 26 minutes.

Work out the mean time taken by the 25 children.

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(3)

7. In a class, there are 12 girls and 16 boys.



In a test, the mean mark for the boys is 32
The mean mark for the whole class is 35

Work out the mean mark for the girls.

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(3)

8. There are 30 boys and girls in a class.



The ratio of boys to girls in the class is 2 : 3

The mean height of the girls is 1.64m
The mean height of all 30 students is 1.7m

Work out the mean height of the boys.

.....
(4)

9. Mr Henderson owns two shops, A and B.



The table below shows information about the number of customers each shop had one afternoon and the mean amount of money spent.

	Shop A	Shop B
Customers	305	424
Mean spend	£3.80	£5.97

Mr Henderson is going to run a promotion where a customer is given a voucher if they spend over £5.

Mr Henderson says that the mean spend by all of the customers in both shops was more than £5

Is he correct?

Explain your answer

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(5)

10. A football squad has 3 goalkeepers, 8 defenders, 9 midfielders and 5 forwards.



The mean height of all 25 footballers is 181cm
The mean height of the 3 goalkeepers is 188cm
The mean height of the 8 defenders is 187cm
The mean height of the 9 midfielders is 176cm

Work out the mean height of the 5 forwards.

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(4)