



S09-10min Combined Mean: 10-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** The total mass of 5 parcels is 40 kg. Work out the mean mass of the 5 parcels.

(Total for Question 1 is 1 mark)

- 2** A fitness app records the number of press-ups done by two groups of members in one week.

Group A: 6 members, mean of 14 press-ups each.

Group B: 4 members, mean of 9 press-ups each.

Work out the combined mean number of press-ups per member, for all 10 members.

(Total for Question 2 is 3 marks)

- 3** 20 pupils took a spelling test.

Class 7X: 8 pupils, mean score 6.

Class 7Y: 12 pupils, mean score 9.

Work out the combined mean spelling score of all 20 pupils.

(Total for Question 3 is 3 marks)

- 4** Group A has 5 members with a mean age of 30. Group B has 5 members with a mean age of 40. Write down the combined mean age of all 10 members, without full working, using the fact the groups are equal in size.

(Total for Question 4 is 1 mark)

- 5** Write down whether the following statement is True or False.
The combined mean of two groups is always exactly halfway between the two individual means.

(Total for Question 5 is 1 mark)

- 6** The mean of 7 numbers is 12. One of the numbers, 19, is removed. Work out the mean of the remaining 6 numbers.

(Total for Question 6 is 2 marks)

Mark scheme · S09-10min Combined Mean: 10-minute Pack

Question 1

- **B1** 8 kg cao
- **Answer:** 8 kg

Question 2

- **M1** $6 \times 14 + 4 \times 9$ (= 120), oe (total press-ups for all 10 members)
- **M1** $120 / 10$ (dep on M1)
- **A1** 12 cao
- **Answer:** 12

Question 3

- **M1** $8 \times 6 + 12 \times 9$ (= 156), oe (total score for all 20 pupils)
- **M1** $156 / 20$ (dep on M1)
- **A1** 7.8 cao
- **Answer:** 7.8

Question 4

- **B1** 35 cao
- **Answer:** 35

Question 5

- **B1** False cao
- **Answer:** False

Question 6

- **M1** correct method, $((7 \times 12) - 19) / 6$
- **A1** 10.833... or $65/6$, awrt 10.83 cao
- **Answer:** $65/6 = 10.83$ (2 dp)