

MEAN TITRE CALCULATION

Paper: 2CR

Question: 6(c)

Question

(c) The scientist repeats the titration four more times.

The table shows her results for these four titrations.

titration number	1	2	3	4
volume of wine added in cm ³	20.40	20.10	20.35	20.45
concordant results				

Concordant results are those within 0.20 cm³ of each other.

(i) Add ticks (✓) to the table to show the concordant results.

(1)

(ii) Use your ticked results to calculate the mean (average) volume of wine added.

(2)

mean volume of wine added = cm³

Mark Scheme

6 (c) (i)clip Ex Ticks in boxes 1, 3 and 4

(ii)clip Ex

- setting out of calculation
- answer

M1 $\frac{20.40 + 20.35 + 20.45}{3}$

M2 20.40

20.40 without working
scores 2

20.4 with or without
working scores 1

If no results ticked then
only use of 2 or 3
concordant titres can
score both marks in (ii)

If only one result ticked
then **M2** can be scored
for averaging two or
more titre values
correctly

M1 CQ on results
ticked

M2 CQ on correct
calculation from M1

Answer to **M2** must be
correct to 2dp