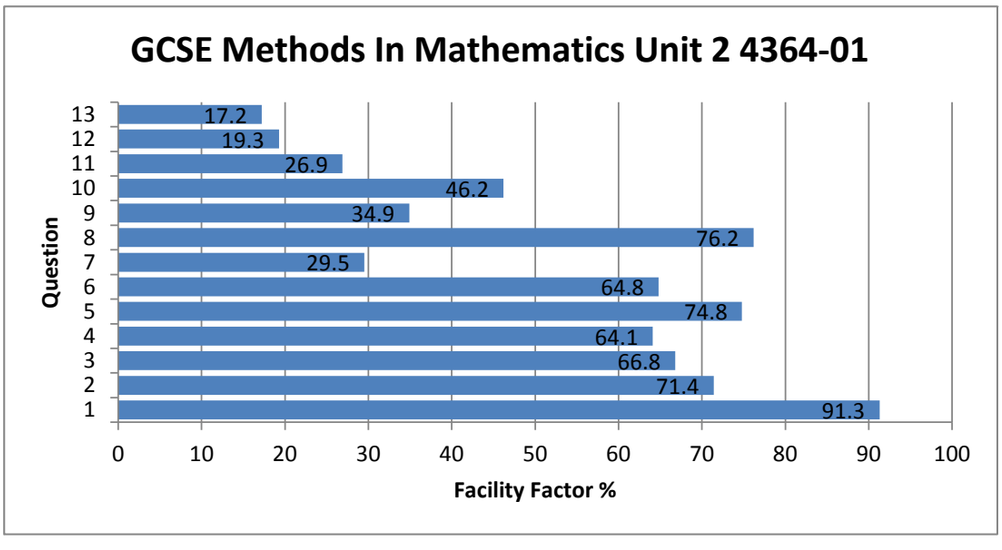
WJEC 2014 Online Exam Review

GCSE Methods In Mathematics Unit 2 4364-01

All Candidates' performance across questions

Question Title	N	Mean	S D	Max Mark	F F	Attempt %
1	443	3.7	0.7	4	91.3	99.8
2	443	7.1	2.3	10	71.4	99.8
3	444	2.7	1.2	4	66.8	100
4	442	3.8	1.7	6	64.1	99.5
5	427	4.5	1.9	6	74.8	96.2
6	430	4.5	2.3	7	64.8	96.8
7	430	3.8	3.6	13	29.5	96.8
8	430	3.8	1.5	5	76.2	96.8
9	431	2.1	1.7	6	34.9	97.1
10	429	1.4	1.2	3	46.2	96.6
11	390	2.2	2.5	8	26.9	87.8
12	430	1	1.4	5	19.3	96.8
13	380	0.5	1.1	3	17.2	85.6

5
6
7
9



Examiner only

5. *You will be assessed on the quality of your written communication in this question.*

Two friends, Lisa and Neil, use the same recipe with six ingredients to make cheese scones for different numbers of people.

- Lisa used 200 g of flour, 1 teaspoon of mustard and 50 g of butter along with the other ingredients to make cheese scones for 10 people.

- Neil used 1 teaspoon of salt, 100 g of cheese and 250 ml of milk along with the other ingredients to make cheese scones for 20 people.

How much flour, mustard, butter, salt, cheese and milk are needed to make enough scones for 100 people?
You must show all your working. [6]

5. *You will be assessed on the quality of your written communication in this question.*

Two friends, Lisa and Neil, use the same recipe with six ingredients to make cheese scones for different numbers of people.

- Lisa used 200 g of flour, 1 teaspoon of mustard and 50 g of butter along with the other ingredients to make cheese scones for 10 people.
- Neil used 1 teaspoon of salt, 100 g of cheese and 250 ml of milk along with the other ingredients to make cheese scones for 20 people.

How much flour, mustard, butter, salt, cheese and milk are needed to make enough scones for 100 people?
You must show all your working. [6]

200 g of flour is needed 50 g butter

2510

5. *You will be assessed on the quality of your written communication in this question.*

Two friends, Lisa and Neil, use the same recipe with six ingredients to make cheese scones for different numbers of people.

- Lisa used 200g of flour, 1 teaspoon of mustard and 50g of butter along with the other ingredients to make cheese scones for 10 people.
- Neil used 1 teaspoon of salt, 100g of cheese and 250ml of milk along with the other ingredients to make cheese scones for 20 people.

How much flour, mustard, butter, salt, cheese and milk are needed to make enough scones for 100 people?
You must show all your working. [6]

200g of flour / 10 number 50g / butter

2510

Examiner only

M1
A1
M0
A0
QWC
0

2

Examiner only

5. *You will be assessed on the quality of your written communication in this question.*

Two friends, Lisa and Neil, use the same recipe with six ingredients to make cheese scones for different numbers of people.

- Lisa used 200g of flour, 1 teaspoon of mustard and 50g of butter along with the other ingredients to make cheese scones for 10 people.
- Neil used 1 teaspoon of salt, 100g of cheese and 250ml of milk along with the other ingredients to make cheese scones for 20 people.

How much flour, mustard, butter, salt, cheese and milk are needed to make enough scones for 100 people?
You must show all your working. [6]

If 200g of flour are used for 10 people then 200g x 10 = 2000g of flour

1 teaspoon of mustard are used for 10 people so 1 teaspoon x 10 = 10 teaspoons of mustard

50g of butter are used for 10 people so 50g x 10 = 500g of butter

1 teaspoon of salt is used for 20 people, so for 10 people would use 0.5 teaspoons x 10 = 5 teaspoons of salt.

100g of cheese is used for 20 people, so for 10 people you would use 50g x 10 = 500g of cheese

250ml of milk are used for 20 people, so for 10 people you would use 250ml x 0.5 = 125ml 125ml x 10 = 1250ml of milk

For 100 people you would need to use 2000g of flour, 10 teaspoons of mustard, 500g of butter, 5 teaspoons of salt, 500g of cheese and 1250ml of milk.

Examiner only

5. *You will be assessed on the quality of your written communication in this question.*

Two friends, Lisa and Neil, use the same recipe with six ingredients to make cheese scones for different numbers of people.

- Lisa used 200g of flour, 1 teaspoon of mustard and 50g of butter along with the other ingredients to make cheese scones for 10 people.
- Neil used 1 teaspoon of salt, 100g of cheese and 250ml of milk along with the other ingredients to make cheese scones for 20 people.

How much flour, mustard, butter, salt, cheese and milk are needed to make enough scones for 100 people?
You must show all your working. [6]

If 200g of flour are used for 10 people then 200g x 10 = 2000g of flour

1 teaspoon of mustard are used for 10 people so 1 teaspoon x 10 = 10 teaspoons of mustard

50g of butter are used for 10 people so 50g x 10 = 500g of butter

1 teaspoon of salt is used for 20 people, so for 10 people would use 0.5 teaspoons x 10 = 5 teaspoons of salt.

100g of cheese is used for 20 people, so for 10 people you would use 50g x 10 = 500g of cheese

250ml of milk are used for 20 people, so for 10 people you would use 250ml x 0.5 = 125ml 125ml x 10 = 1250ml of milk

For 100 people you would need to use 2000g of flour, 10 teaspoons of mustard, 500g of butter, 5 teaspoons of salt, 500g of cheese and 1250ml of milk.

M1
A1
M1
A1
QWC
2
6

Examiner only

6.

(b) Find $\frac{2}{11}$ of 242 g. [2]

.....

.....

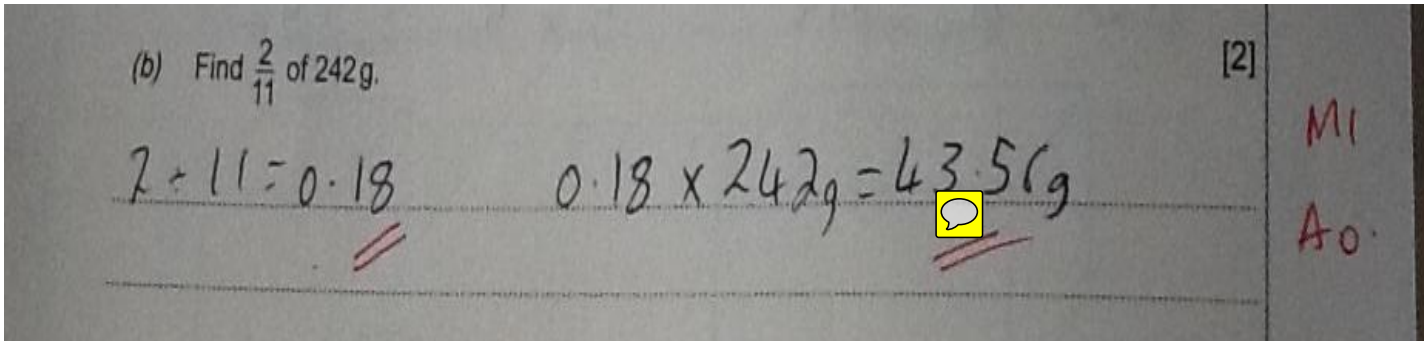
Turn over.

6.

(b) Find $\frac{2}{11}$ of 242g. [2]

$2 \div 11 = 0.18$ $0.18 \times 242g = 43.56g$

6.

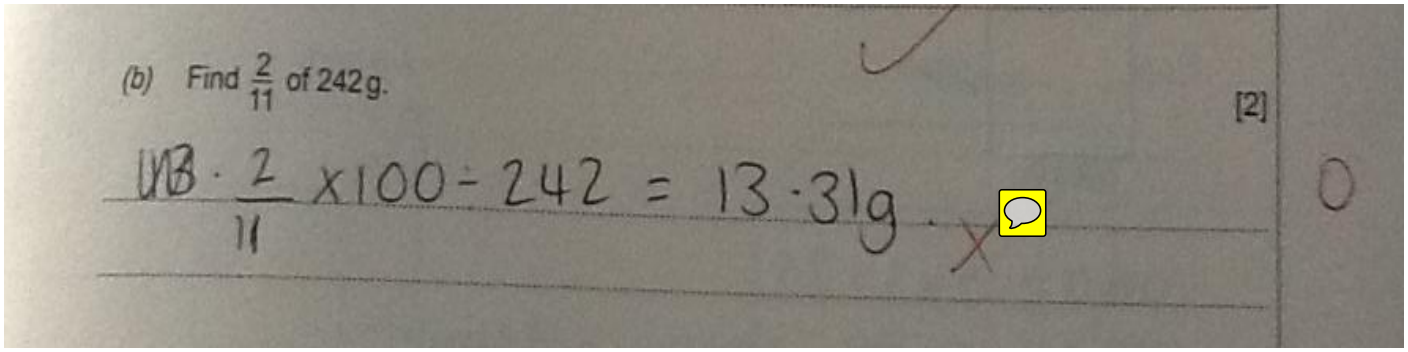


6.

(b) Find $\frac{2}{11}$ of 242g. [2]

$\frac{UB \cdot 2}{11} \times 100 \div 242 = 13 \cdot 31g$

6.



Examiner only

7. *(b)* Calculate the area of the following triangle **giving your answer in m^2**. [3]

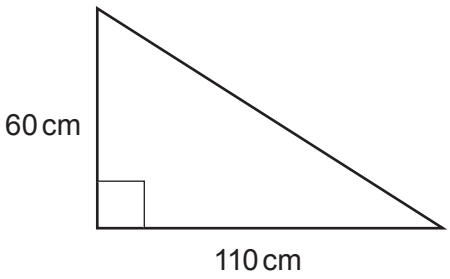


Diagram not drawn to scale

.....

.....

.....

.....

.....

.....

7.

(b) Calculate the area of the following triangle **giving your answer in m^2.** [3]

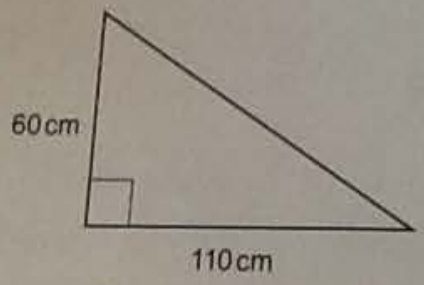


Diagram not drawn to scale

Area = L x W

A = 60 x 110

A = 6600 m^2

7.

(b) Calculate the area of the following triangle **giving your answer in m^2.** [3]

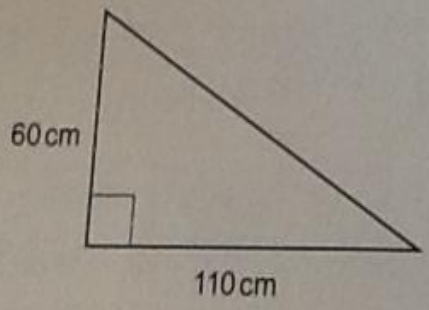


Diagram not drawn to scale

Area = L x W

A = 60 x 110

A = 6600 m^2

X

M0

A0

A0

7.

(b) Calculate the area of the following triangle **giving your answer in m^2** [3]

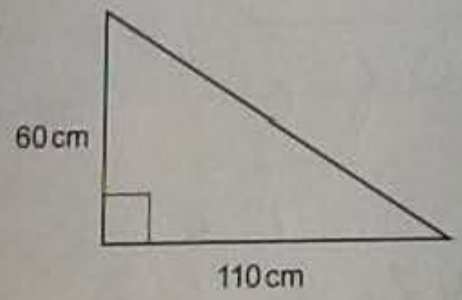


Diagram not drawn to scale

60 x 110 = 6600

6600 ÷ 2 = 3300 cm

100 cm = 1 m

3300 ÷ 100 = 33

Area of triangle = $33m^2$

7.

(b) Calculate the area of the following triangle **giving your answer in m^2** [3]

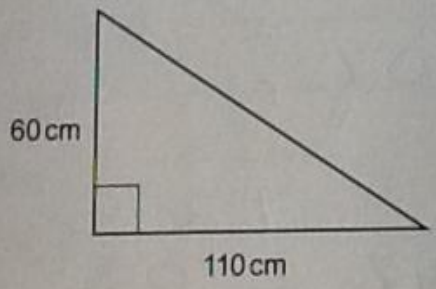


Diagram not drawn to scale

$60 \times 110 = 6600$ ✓

$6600 \div 2 = 3300\,cm$ M1

$100\,cm = 1\,m$ A1

$3300 \div 100 = 33$ A0

Area of triangle $= 33m^2$ ✗

Examiner only

9. *(b)* Find the value of $\sqrt{634{\cdot}1} - 2{\cdot}42^3$. Write down your answer correct to 2 decimal places. [2]

.....

.....

9.

(b) Find the value of $\sqrt{634\,1} - 2{\cdot}42^3$. Write down your answer correct to 2 decimal places. [2]

11.00

9.

(b) Find the value of $\sqrt{6341} - 2 \cdot 42^3$. Write down your answer correct to 2 decimal places. [2]

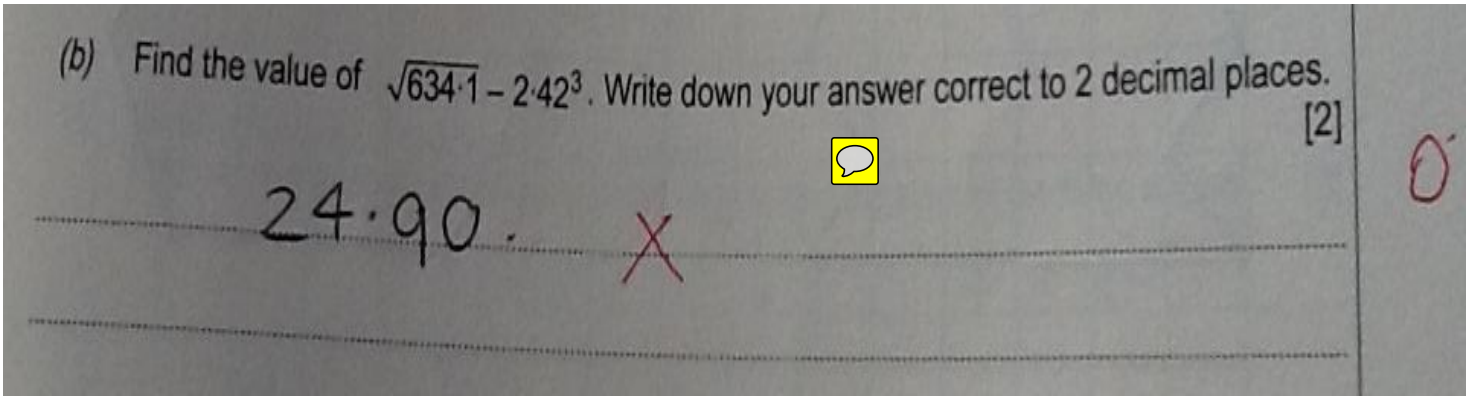
11.00

9.

(b) Find the value of $\sqrt{634 \cdot 1} - 2 \cdot 42^3$. Write down your answer correct to 2 decimal places. [2]

24·90.

9.



(b) Find the value of $\sqrt{634 \cdot 1} - 2 \cdot 42^3$. Write down your answer correct to 2 decimal places. [2]

24.90.

0