

Surname	Centre Number	Candidate Number
First name(s)		0



GCSE

3310U10-1



S25-3310U10-1

THURSDAY, 8 MAY 2025 – MORNING

MATHEMATICS – NUMERACY
UNIT 1: NON-CALCULATOR
FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination.
A ruler, a protractor and a pair of compasses may be required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions in the spaces provided.

If you run out of space, use the additional page at the back of the booklet. Question numbers must be given for all work written on the additional page.

Take π as 3.14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part-question.

In question 4, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	7	
2.	10	
3.	5	
4.	10	
5.	5	
6.	11	
7.	3	
8.	3	
9.	7	
10.	4	
Total	65	

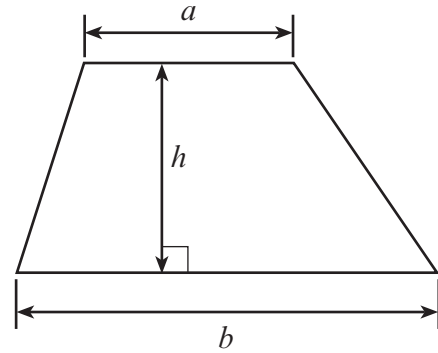
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Formula List – Foundation Tier

Area of trapezium $= \frac{1}{2} (a + b)h$



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1. Dafydd was celebrating his birthday.
He asked his friends to choose one activity.
They could choose cinema, trampolining or bowling.

This table shows the results.

Cinema	$\frac{3}{10}$ of his friends
Trampolining	20% of his friends
Bowling	$\frac{1}{2}$ of his friends

- (a) Dafydd says, "Cinema is more popular than trampolining."

Is Dafydd correct?

You must show working to support your answer.

[1]

Yes ☐ No ☐

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- (b) 15 of Dafydd's friends said they preferred bowling.
How many of Dafydd's friends were there altogether?

[1]

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- (c) Dafydd and his friends decide to take the train from Briton Ferry to Cardiff. Dafydd finds the following information on the internet.

Briton Ferry	Departs	17:31
Cardiff	Arrives	18:19

How many minutes will the journey take?

[2]

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- (d) 20 people go bowling on Dafydd's birthday. The cost is £10.50 per person.

They pay using the following offer.

Pay full price for 1 person and
the second person pays half price.

How much will it cost the 20 people to go bowling using this offer?

[3]

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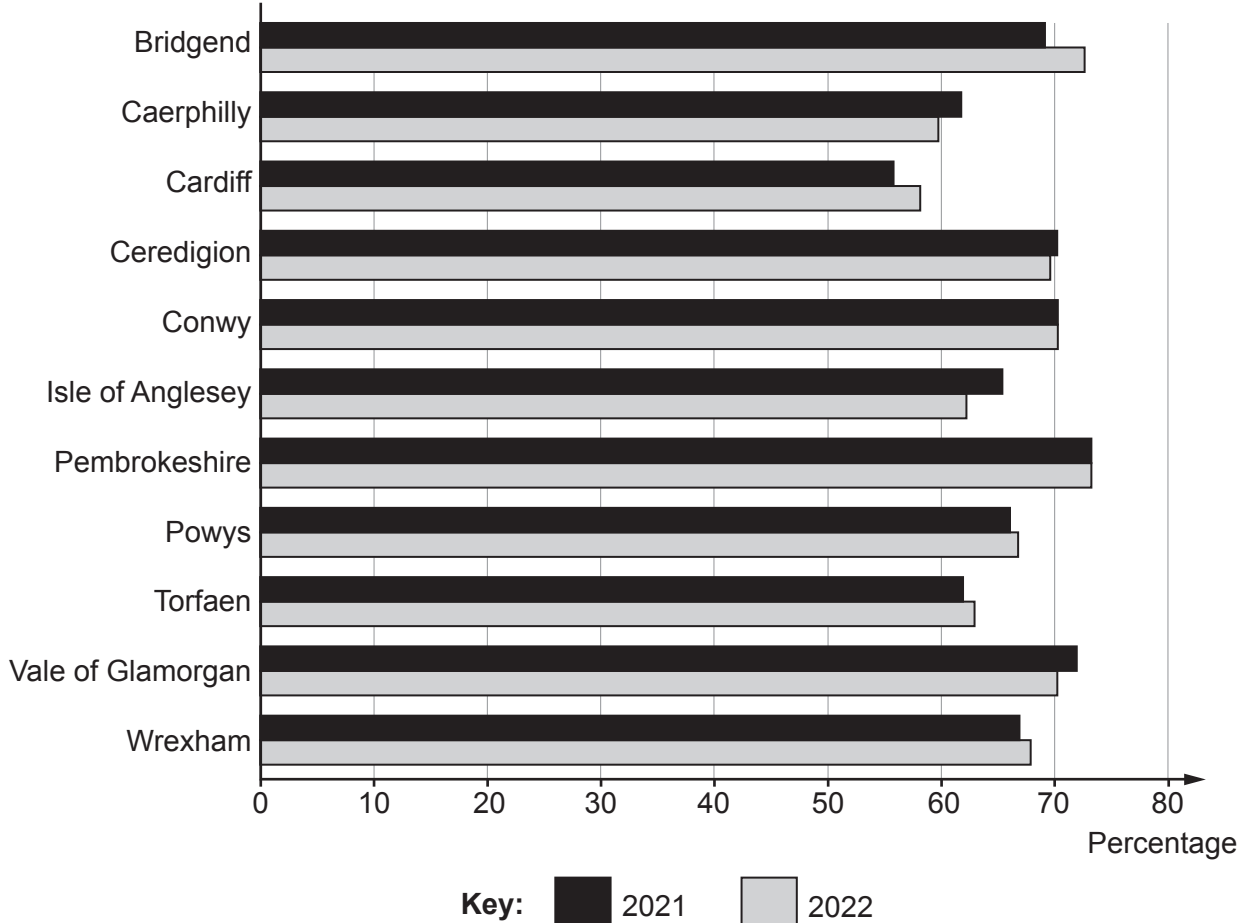
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2. (a) Local authorities in Wales recycle household waste.
The chart below shows the percentages of waste that some local authorities recycled in 2021 and 2022.

Local authorities



- (i) How many of these local authorities recycled a greater percentage of waste in 2022 than they recycled in 2021? [1]

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- (ii) In 2022, four of the local authorities recycled 70% or more of their household waste.
Name these four local authorities. [2]

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(iii) In 2022:

- 65.2% of household waste was recycled in Wales
- 59.7% of household waste was recycled in Caerphilly.

Calculate the difference between these two percentages.

[2]

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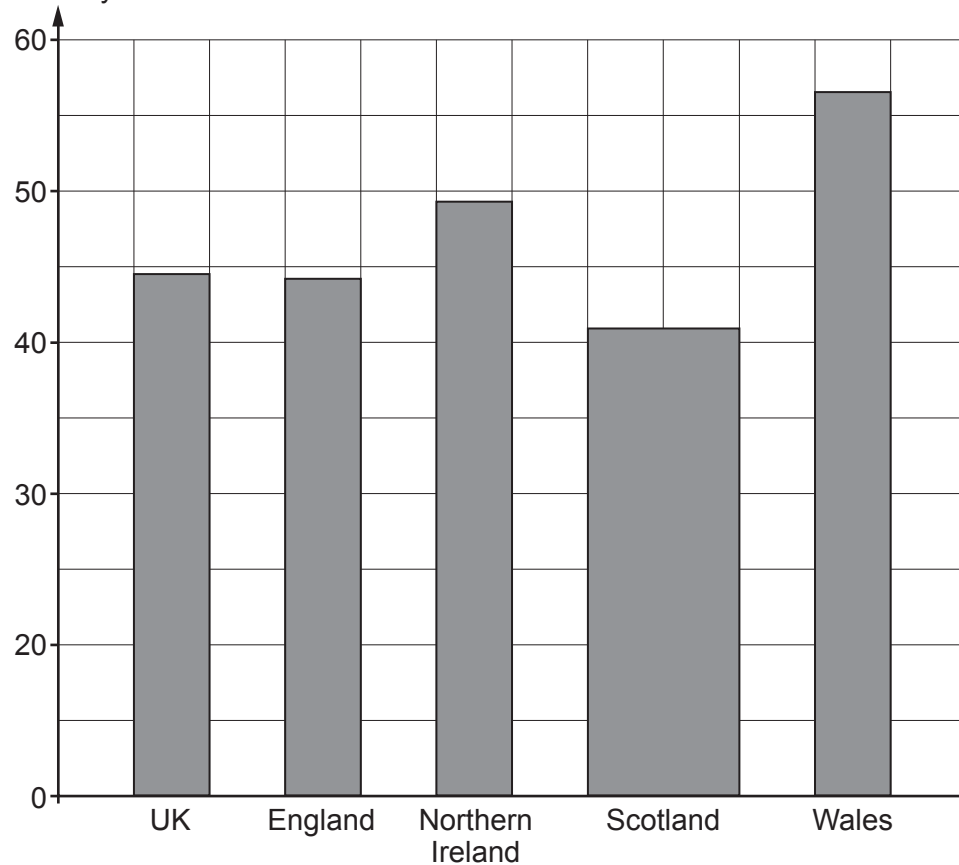
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(b) This bar chart shows the percentage of waste recycled in the UK in 2020.

Percentage of household
waste recycled



Write down **two** things that are wrong with the bar chart.

[2]

1.

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2.

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- (c) Kristian tries to recycle as much as possible.
He had some spare square and rectangular tiles, as shown below.

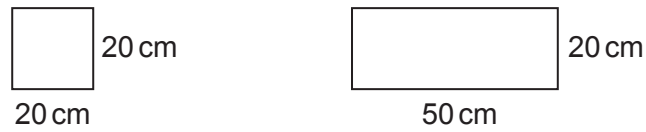


Diagram not drawn to scale

Rather than replace his garden table, Kristian used his spare tiles to tile the top of the table.
The tiled table top is shown below.

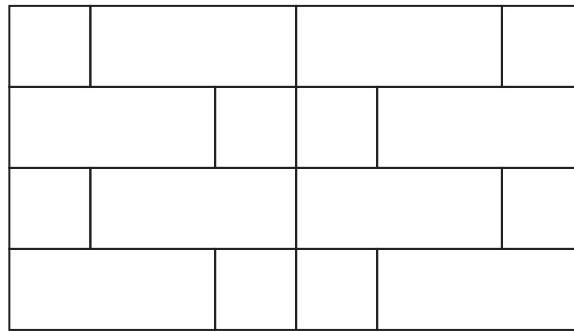


Diagram not drawn to scale

Kristian wants to put a border around the perimeter of the table.
What length of border will he need?

[3]

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3. Ellie wants to decorate her living room.

- (a) She sees paint that she likes in her local DIY shop.
The paint is sold in 2-litre tins and 8-litre tins.



Diagrams not drawn to scale

- (i) Which size tin of paint is the better value?
You must show all your working.

[2]

2 litres 8 litres

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- (ii) What is the name given to the 3D shape that best represents the tins of paint shown in the diagram above?
Circle your answer.

[1]

Sphere Cylinder Cube Cone Cuboid

- (b) Ellie pays a decorator to paint her living room.
The decorator uses the following formula to calculate the total cost.

$$\text{Total cost} = \text{£}30 \times \text{number of hours} + \text{£}45$$

The decorator takes 7 hours to paint Ellie's living room.
How much does Ellie pay?

[2]

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- Angharad has a food truck.
She sells hotdogs at festivals.
Each hotdog consists of a bread roll and a sausage.

Fees paid to the festival organiser	£450
Bread rolls	£1.50 for 6 bread rolls
Sausages	£4 for 10 sausages

[8 + 2 OCW]

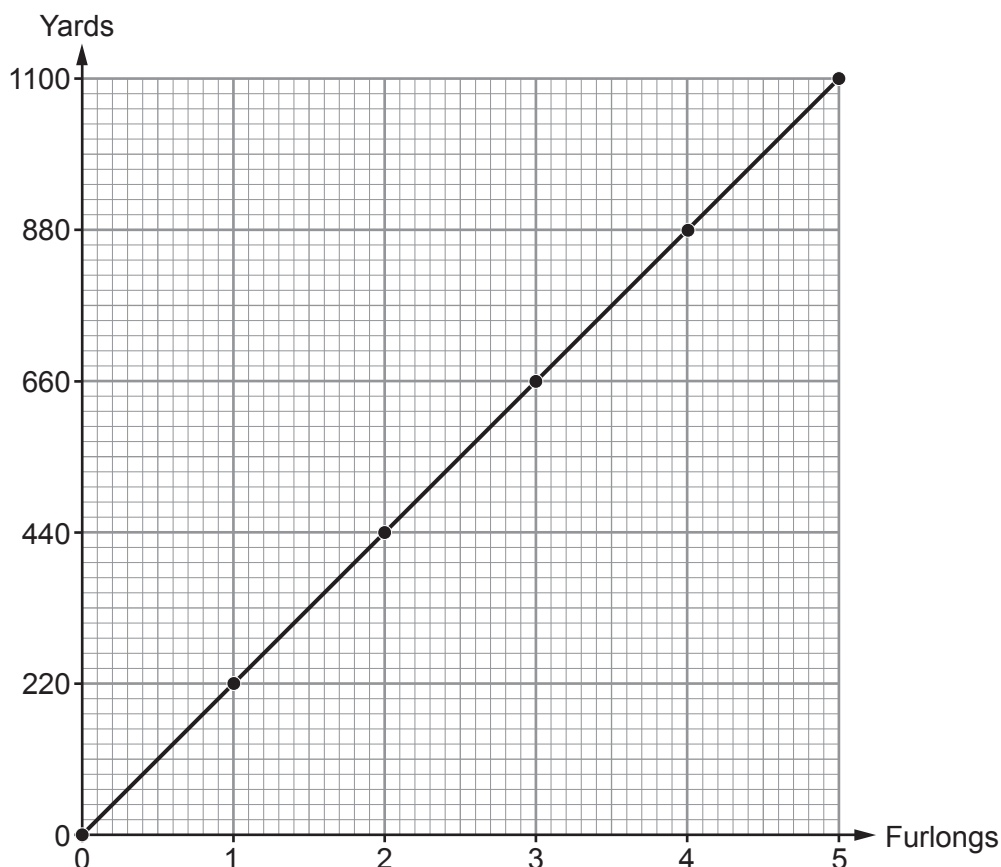


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5. Furlongs and yards are both measures of length. In the past, these measures were used in farming. The conversion graph below can be used to convert between furlongs and yards.



Complete each of the following statements.

- (a) 330 yards is equal to furlongs. [1]

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- (b) 7 furlongs is equal to yards. [2]

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- (c) 1320 yards is equal to furlongs. [2]

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(a) Viktor wants to buy some animal feed for his sheep.
He can **either** buy a bag of Sean Sheep Mix **or** a bag of Rugged Sheep Mix.

A stylized black and white logo of a sheep's head. The sheep has a large, fluffy white body with a black outline, and two small, curved black horns. It is facing forward with two small, white, crescent-shaped eyes. The entire logo is enclosed within a circular frame consisting of two concentric circles, with the outer circle being a light gray and the inner circle being white.

[5]

It is cheaper by £



- (b) Viktor sells butter and ice cream in his farm shop.
He sells his butter in 250g packets. Each packet costs £3.25.

Sioned buys 500g of butter and 1.5 litres of ice cream.
She pays a total of £18.50 for the butter and the ice cream.

Calculate the cost of 1 litre of ice cream.

[4]

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1 litre of ice cream costs £



(c)



Viktor orders a new water trough for his cows.

It is in the shape of a cuboid.

The internal measurements are:

length 4 m, width 0.5 m and height 0.8 m.

Calculate the capacity of the new water trough in m^3 .

[2]

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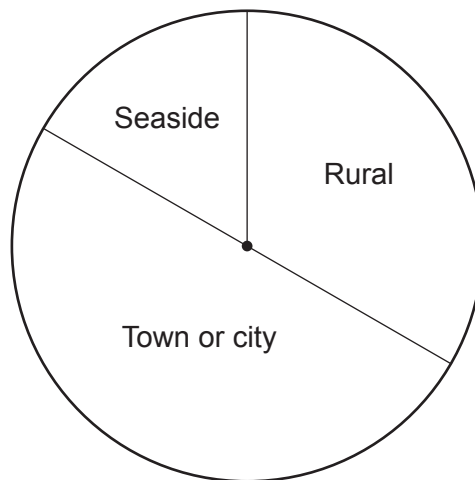
Capacity is m^3



7. Ralph completed a survey.
He asked people to describe where they live.

Ralph's results are shown on the accurately-drawn pie chart below.

Results of Ralph's survey



In Ralph's survey, 480 people answered 'Town or city'.
Calculate the number of people who answered 'Seaside' in Ralph's survey.

[3]

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8. A survey was carried out to find how many books children read during the holidays.

The following two questions were asked in a questionnaire.

Q1. Most children read lots of books.

Do you read lots of books?

Q2. How many books do you read during the holidays?

None

1-10 books

10-20 books

More than 20 books

☐
☐
☐
☐

- (a) (i) Give **one** reason why Q1 was **not** a suitable question.

[1]

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- (ii) Give **one** reason why Q2 was **not** a suitable question.

[1]

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- (b) The survey was carried out by asking children as they left the library on a Saturday morning.
Give **one** criticism of how the survey was carried out.

[1]

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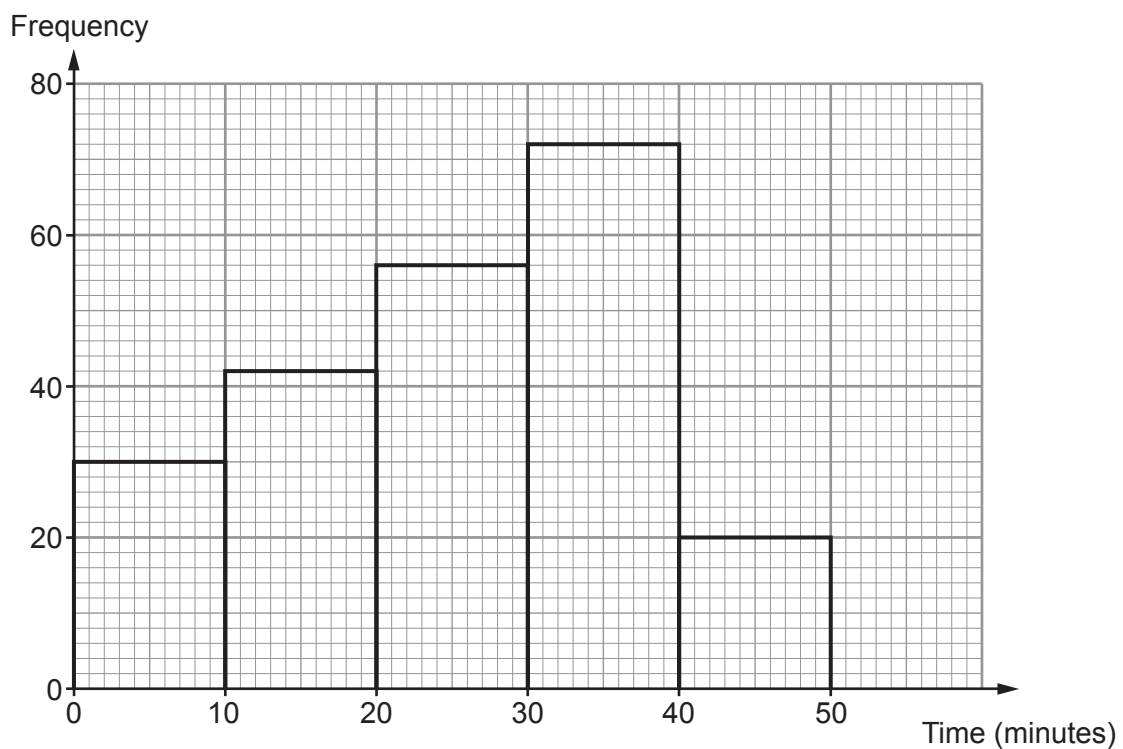


9. On a flight to Spain, the cabin crew started serving drinks to passengers at 11:00 a.m. The flight manager recorded the length of time each passenger had to wait to be served.



The flight manager has drawn a frequency diagram to display her findings. She used groups of width 10 minutes:

$0 \leq \text{time} < 10$, $10 \leq \text{time} < 20$, and so on.



- (a) How many passengers waited less than 10 minutes to be served? [1]

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- (b) How many passengers were on this flight to Spain? [2]

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- (c) What fraction of the total number of passengers had to wait 40 minutes or more to be served a drink?
Express your answer in its simplest form. [2]

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- (d) What is the modal group of these recorded times? [1]

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- (e) The flight manager says,

Consider the passengers who waited between 30 minutes
and 40 minutes to be served.

If 12 of these passengers had been served 10 minutes faster,
the modal group would have been different.

Is the flight manager correct?
Give a reason for your answer.

[1]

Yes

☐

No

☐

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He buys two different sizes of jar for the honey.

- 

- calculating the cost of the honey in the jar
- adding on the amount he paid for the jar.

How much should Ewan charge for a 200 ml jar of honey?
You must show all your working.

[4]



[illegible]

[illegible]

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