



# The Rhind Mathematical Papyrus

Teacher Notes: There are challenges throughout this resource aimed at First Level. *All class challenges* are aimed higher and can be worked through as a class to explore larger numbers. Use classroom resources or concrete materials to model the questions.

Much of our knowledge about Egyptian maths comes from a document known as "The Rhind Mathematical Papyrus". It was acquired in 1862-3 by Scottish archaeologist Alexander Henry Rhind.

The 5 metre papyrus is full of mathematical problems and their answers. It might have been used to teach scribes common mathematical calculations, so that they could be helpful when

dealing with numbers and accounts. Some of the problems teach the scribe how to divide rations among workers, to calculate the angle of a pyramid or to work out how much grain could be stored in a specific building. The papyrus was written by a scribe called Ahmose because he "signed" his work, but he wrote that he had copied it from a much older document.

#### FACT:

A.Henry Rhind was the first archaeologist to excavate in Egypt. Rhind made some amazing discoveries, including an enormous tomb, built just after Tutankhamun's reign. However, he didn't work on his own, he was assisted by a skilled Egyptian team led by an expert excavator named Ahmed Abd er-Rasul.

**Challenge:** Can you solve this problem like the one in the Rhind Mathematical Papyrus?

Two houses each contain two cats. Every cat manages to catch two mice. How many objects are there all together? (houses + cats + mice)

When you've finished, Write your answer in hieroglyphs next to 'demedge' which means total in ancient Egyptian.



Hieroglyph 'demedge'.



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All Class Challenge: Can you solve this problem from the Rhind Mathematical Papyrus as a class?

Seven houses each contain seven cats. Every cat manages to catch seven mice. Each mouse eats seven ears of wheat. If all the ears of wheat were planted, they would each produce seven tubs of grain. How many objects are there altogether (houses + cats + mice + ears of wheat+ tubs of grain)?

### Let's break it down!

How	many	houses?

How many cats \_\_\_\_\_

How many mice? \_\_\_\_\_

How many ears of wheat?	
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How	many	tubs	of	grain?	_
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Now add up all these numbers. \_\_\_\_\_

When you've finished, Write your answer in hieroglyphs next to 'demedge' which means total in ancient Egyptian.



Total:

Congratulations if you solved the problem – you would have made a great scribe in ancient Egypt!



