

Archimedes

10 Archimedes lived from 287BC to 212BC in Sicily. He was
 19 a Greek mathematician who devoted his life to research.

27 His most famous discovery possibly happened in the
 35 bath! He discovered the law of buoyancy (Archimedes'
 47 Principle). If the weight of an object in water is less than
 58 the water, then the object rises. If the object is heavier
 70 than the displaced water, it will sink. If it is equal then
 84 it will neither sink nor rise; it will float, like a boat. It is
 93 said (although not actually written in his journal) that
 104 he was so excited, he jumped out of the bath shouting
 113 "Eureka!" (meaning, "I have found it!"), a common phrase
 119 used today when discovering an answer.



Quick Questions



1. Which word means the same as 'loyal'?



2. In which year did he die? How old was Archimedes when he died?



3. Find two phrases that tell you how committed Archimedes was to his work, explaining your choices.



4. Why does the author use the phrases 'possibly' and 'It is said...'?

Stage: 6	Challenge Words Name: _____
List: 6	



Spellings	1 st Attempt	2 nd Attempt	3 rd Attempt	4 th Attempt	5 th Attempt
amateur					
category					
correspond					
environment					
frequently					
language					
occur					
queue					
signature					
twelfth					

Compare the following fractions by using $>$ or $<$.



$$\frac{2}{4} \bigcirc \frac{1}{4}$$

$$\frac{3}{4} \bigcirc \frac{1}{4}$$

$$\frac{2}{5} \bigcirc \frac{1}{5}$$

$$\frac{1}{3} \bigcirc \frac{1}{5}$$

$$\frac{2}{6} \bigcirc \frac{5}{6}$$

$$\frac{1}{8} \bigcirc \frac{2}{8}$$

$$\frac{1}{2} \bigcirc \frac{1}{3}$$

$$\frac{1}{6} \bigcirc \frac{1}{5}$$

$$\frac{3}{5} \bigcirc \frac{3}{10}$$

$$\frac{2}{7} \bigcirc \frac{2}{6}$$

$$\frac{1}{3} \bigcirc \frac{1}{8}$$

$$\frac{2}{5} \bigcirc \frac{2}{6}$$

$$\frac{1}{4} \bigcirc \frac{1}{4}$$

$$\frac{3}{7} \bigcirc \frac{3}{5}$$

$$\frac{1}{8} \bigcirc \frac{1}{3}$$

$$\frac{7}{9} \bigcirc \frac{5}{9}$$

$$\frac{2}{3} \bigcirc \frac{2}{2}$$

$$\frac{2}{3} \bigcirc \frac{0}{3}$$

$$\frac{1}{5} \bigcirc \frac{1}{2}$$

$$\frac{2}{6} \bigcirc \frac{2}{3}$$

$$\frac{1}{8} \bigcirc \frac{1}{6}$$

$$\frac{2}{5} \bigcirc \frac{2}{3}$$

$$\frac{2}{4} \bigcirc \frac{2}{8}$$

4a. A forest has 336 trees.
 $\frac{5}{8}$ of the trees are oak trees.

How many of the trees are NOT oak trees?



4b. A chef makes 255 pizzas at a restaurant on Monday. $\frac{2}{5}$ of the pizzas made on Monday are Pepperoni.

How many pizzas made on Monday were NOT Pepperoni?



5a. Liam and Tia are reading the same book which has 630 pages.



Liam

I have read $\frac{5}{9}$ of the book.

I have read $\frac{4}{7}$ of the book.



Tia

Who has read the most pages? Convince me.



5b. Amy and Simon are given £840 to share.



Amy

I have $\frac{6}{10}$ of the money.

I have $\frac{2}{5}$ of the money.



Simon

Who has the most money? Convince me.



6a. Use the cards to complete the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$$\frac{\square}{\square} \text{ of } \square = \square$$

720 5 600 7 840 6



6b. Use the cards to complete the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$$\frac{\square}{\square} \text{ of } \square = \square$$

440 6 660 5 550 4

