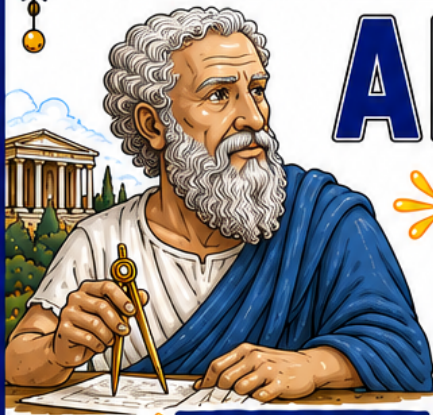


Name: _____

Date: _____



ARCHIMEDES

COMPREHENSION

Use the information on the page to find the answers to the questions below.



LIFE AND TIMES

- Archimedes was a famous Greek mathematician, scientist and inventor who lived around 287 to 212 BCE.
- He was born in the city of Syracuse on the island of Sicily, which was part of Greece.
- Archimedes **probably** spent time in Alexandria in Egypt, where he learned from mathematicians and scientists, and studied mathematics, science and engineering.
- Archimedes returned to Syracuse and worked for King Hiero II.
- He used maths to solve real problems and to design useful machines.
- **According** to a famous story, Archimedes realised the principle of buoyancy while having a bath! He shouted, "Eureka!" which means "I have found it!"
- He could find out if an object would float or sink by how much water it moved.
- He designed many useful machines, including **Archimedes' screw** to lift water, and machines to lift heavy objects. He also designed and improved defensive machines, including catapults and other siege devices, to help defend the city.
- Archimedes worked out **one of the most** accurate estimates of π (pi) in the ancient world and worked out how to find the area and volume of shapes.
- He loved learning and once said, "Give me a place to stand and I will move the Earth."
- When the Romans captured Syracuse in 212 BCE, Archimedes was killed.

QUESTIONS

1. Where was Archimedes born? _____
2. Around what years did Archimedes live? _____
3. Where did Archimedes go to study? _____
4. What subjects did he study in Alexandria? _____
5. Who did Archimedes work for when he returned to Syracuse? _____
6. What did Archimedes use maths to do? _____
7. According to the passage, where was Archimedes when he realised the principle of buoyancy? _____
8. What word did Archimedes shout when he made his discovery? _____
9. What did Archimedes invent to help lift heavy objects? _____
10. What did Archimedes calculate and measure in mathematics? _____
11. What did Archimedes famously say about moving the Earth? _____
12. How did Archimedes die, and in what year? _____

ARCHIMEDES IS KNOWN FOR

- ★ The principle of buoyancy.
- ★ Amazing inventions and machines.
- ★ Using maths to solve real problems.
- ★ Working out one of the most accurate estimates of π (pi).
- ★ Finding the area and volume of shapes.
- ★ Helping to defend Syracuse.
- ★ Making important discoveries in mathematics and science.



THE PRINCIPLE OF BUOYANCY

An object in water is pushed up by the water. This push is called upthrust. If the upthrust is more than the object's weight, it will float.



This idea helps us know why some things float and others sink.

ANSWER THE EXTRA!

- ★ According to the passage, where was Archimedes when he realised the principle of buoyancy? _____
- ★ Name one invention that Archimedes created. _____



THINK LIKE ARCHIMEDES!

Archimedes loved thinking of clever ways to solve problems. Write one question you would ask him about science or inventions. _____