

First Flight

Airplanes are a common sight in modern skies, but it wasn't always that way! In fact, there was a time, over one hundred years ago, when it was thought that people would never be able to fly at all.

Throughout the 1800s, many people experimented with flying machines. In the 1890s a German named **Otto Lilienthal** (LIL-ee-uhn-thawl) made thousands of flights with gliders. He succeeded in gliding greater distances than anyone else, but was killed when his glider crashed in 1896.

At the same time, American inventor **Samuel Langley** was also making experiments. He tried making gliders, too, and flying machines powered by rubber bands. He even built a flying machine propelled by a small steam engine, but was not able to make it fly while carrying a person.

Brothers **Orville and Wilbur Wright** wanted to build flying machines, too. They thought that the biggest problem to solve was how to steer and control a flying machine in the air. They studied birds to see how they changed direction while flying, and conducted many experiments to learn which wing shapes would lift a flying machine the best.

After years of experimenting with gliders, the Wright brothers built their first airplane, complete with propellers and a gasoline engine. They took it to **Kitty Hawk, North Carolina**, and on December 17, 1903, Orville Wright piloted their aircraft, the Wright Flyer, for its first flight. The flight only lasted twelve seconds, but it was the first time in history that anyone had been able to pilot a heavier-than-air craft under its own power.

The Wright brothers made improvements to their airplane, and before long, people all over the world were able to fly!

Answer the following questions using information from the passage you just read.



1) Which inventor made long flights with a glider?

Otto Lilienthal

2) What are two ways that Samuel Langley tried to power a flying machine?

rubber bands and a

steam engine

3) What did the Wright brothers think was the biggest problem they had to solve?

how to steer and control a

flying machine

4) When and where was the first powered flight?

December 17, 1903

Kitty Hawk, North Carolina

Grammar answers for apostrophes

Greater Depth

9a. A

10a. shall not

11a. I'd like a new bike for my birthday as I've been riding my old one until now even though it's too small for me.

12a. A

Greater Depth

9b. B

10b. what will

11b. She'll have to finish her homework before she goes to bed, although it's likely to take her a couple of hours.



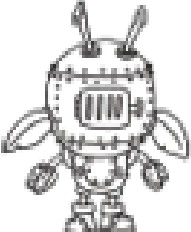



she'll, it's

12b. C

Compare and order decimals answers







*

Monsters should be placed in this order:







					
0.6m	0.9m	1.1m	1.6m	1.8m	2.1m

**

Monsters should be placed in this order:

					
1.05m	1.18m	1.32m	1.50m	1.76m	1.97m

Monsters should be placed in this order:

					
0.912m	0.92m	1.11m	1.35 m	1.53m	1.93m

Reasoning answers– compare and order decimals

*

Complete the statements by writing < or > in each box.

$1.97\text{m} \boxed{>} 1.32\text{m}$

$1.50\text{m} \boxed{<} 1.76\text{m}$







$1.50\text{m} \boxed{>} 1.05\text{m}$

$1.18\text{m} \boxed{>} 1.05\text{m}$

$1.97\text{m} \boxed{>} 1.18\text{m}$

$1.76\text{m} \boxed{>} 1.32\text{m}$

**

Warp	Bugz	Grue	Blob	Fuzz	Grin
					
1.1m	2.1m	1.9m	0.9m	0.6m	1.6m

Complete the statements by writing < or > in each box.

$0.6\text{m} \boxed{<} 1.1\text{m}$







$1.1\text{m} \boxed{>} 0.9\text{m}$

$1.9\text{m} \boxed{>} 0.6\text{m}$

$2.1\text{m} \boxed{>} 1.9\text{m}$

$1.6\text{m} \boxed{<} 2.1\text{m}$

$0.9\text{m} \boxed{<} 1.6\text{m}$

Fizz	Tangle	Croc	Ooze	Glob	Octo
					
2.18m	1.50m	1.05m	1.76m	1.18m	1.97m

Complete the statements by writing < or > in each box.

$1.97\text{m} \boxed{>} 1.32\text{m}$

$1.50\text{m} \boxed{<} 1.76\text{m}$

$1.50\text{m} \boxed{>} 1.05\text{m}$

$1.18\text{m} \boxed{>} 1.05\text{m}$

$1.97\text{m} \boxed{>} 1.18\text{m}$

$1.76\text{m} \boxed{>} 1.32\text{m}$

Word problems answers– compare and order decimals

1. 7.89 7.90 8.35 8.41
2. Juan
3. Answers will vary – numbers between 3.72 and 4.13
4. Gary
5. Thursday