Wilbur and Orville ★★★★★★★★

Wright

WILBUR
WRIGHT
ORVILLE
WRIGHT

ORVILLE and WILBUR WRIGHT'S EARLY LIFE

THEIR FATHER'S NAME WAS MILTON WRIGHT. HE WAS A MINISTER.
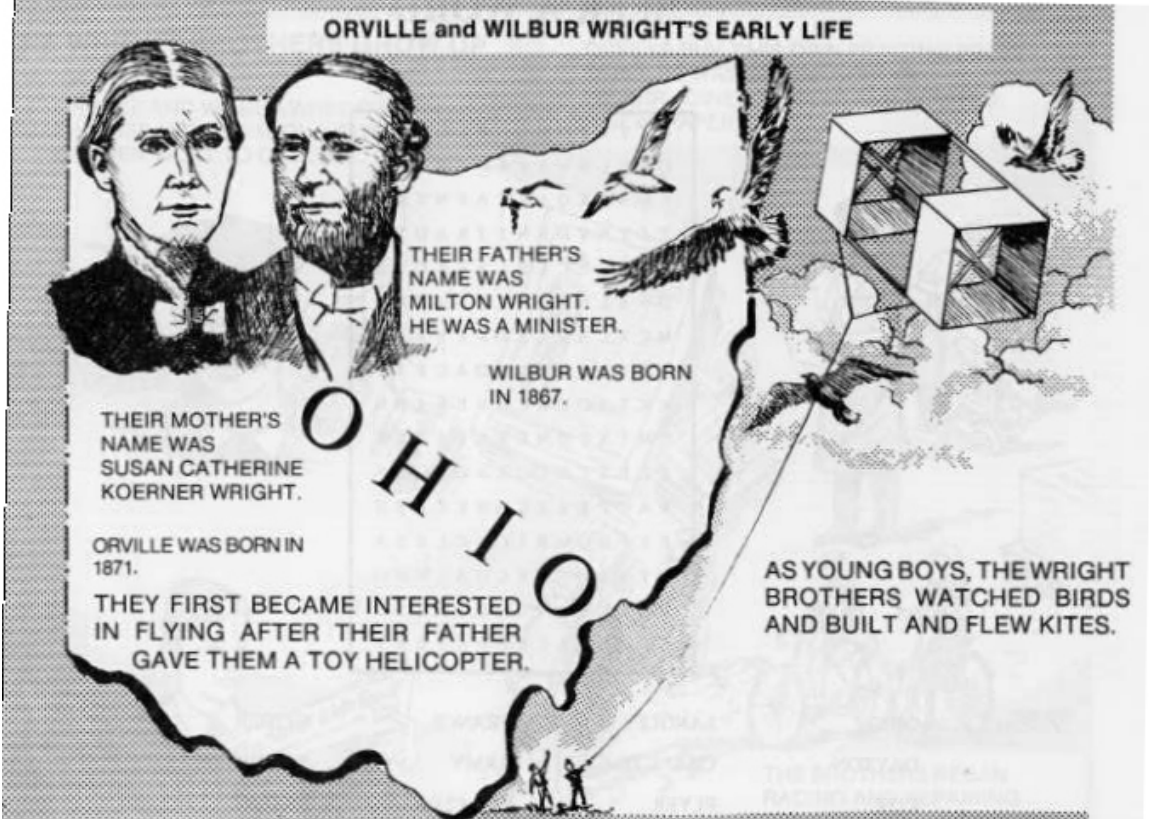
WILBUR WAS BORN IN 1867.

THEIR MOTHER'S NAME WAS SUSAN CATHERINE KOERNER WRIGHT.

ORVILLE WAS BORN IN 1871.

THEY FIRST BECAME INTERESTED IN FLYING AFTER THEIR FATHER GAVE THEM A TOY HELICOPTER.

OHIO

AS YOUNG BOYS, THE WRIGHT BROTHERS WATCHED BIRDS AND BUILT AND FLEW KITES.

SEEK A WORD

Find the words in the puzzle that were important to the Wright brothers.

```
C  K  T  X  P  D  M  C  G  F  L  Q  S  Z  G
Q  H  U  L  N  W  A  Z  F  O  E  R  P  B  L
L  M  A  A  K  Q  I  E  S  A  F  N  T  K  I
T  I  Y  N  V  D  F  N  T  J  R  A  U  T  D
B  N  S  G  U  C  E  F  L  Y  E  R  C  Y  E
O  W  B  L  C  T  H  R  I  R  S  M  K  F  R
M  C  X  E  A  I  E  A  U  R  P  Y  T  A  E
A  E  F  Y  P  U  W  N  T  Q  A  C  F  J  T
X  K  T  J  D  C  G  C  H  U  E  R  I  H  N
V  M  I  X  P  D  N  E  W  S  P  A  P  E  R
P  D  L  T  C  B  L  Q  X  A  O  V  G  C  T
P  A  C  P  E  R  S  C  O  H  K  Z  E  B  H
E  Y  P  N  Q  M  B  I  C  Y  C  L  E  S  A
S  T  X  I  U  C  H  E  C  Q  A  J  M  W  O
U  O  I  C  Z  O  M  O  K  D  G  H  Z  Y  O
J  N  X  L  T  A  C  R  Z  P  A  T  E  N  T
```

OHIO	LANGLEY	FRANCE	GLIDER
DAYTON	CHANUTE	ARMY	NEWSPAPER
KITE	FLYER	BICYCLES	PATENT

THE WRIGHT BROTHERS GROW UP

ORVILLE AND WILBUR WRIGHT BOTH FINISHED HIGH SCHOOL. NEITHER OF THEM WENT TO COLLEGE.

ORVILLE BUILT HIS OWN PRINTING PRESS WHILE HE WAS IN HIGH SCHOOL. WILBUR JOINED ORVILLE AND PRINTED A NEWSPAPER.

THE BROTHERS BEGAN RACING AND REPAIRING BICYCLES.

MATH TREASURE HUNT

Follow the directions to find the answer to the Treasure Question - How long did the Wright Flyer stay in the air on its first flight?

| WRITE THE NUMERALS	DO YOUR WORK HERE!
(1) The year of the first flight	_____
ADD	_____
(2) The number of letters of the town where that flight took place.	_____
SUBTRACT	_____
(3) The year Wilbur was born.	_____
DIVIDE BY	_____
(4) Five	_____
MULTIPLY BY	_____
(5) The number of words in the state where the first flight took place.	_____
ADD	_____
(6) The day of the month of the first flight.	_____
MULTIPLY BY	_____
(7) The number of letters in the first name of the oldest brother.	_____
SUBTRACT	_____
(8) The number that stands for bicentennial	_____
ADD	_____
(9) The number of wings on the Flyer	_____

ANSWER: _____seconds

1892 THE WRIGHT BROTHERS OPENED A BICYCLE SHOP. THEY BEGAN TO BUILD AND REPAIR BICYCLES.
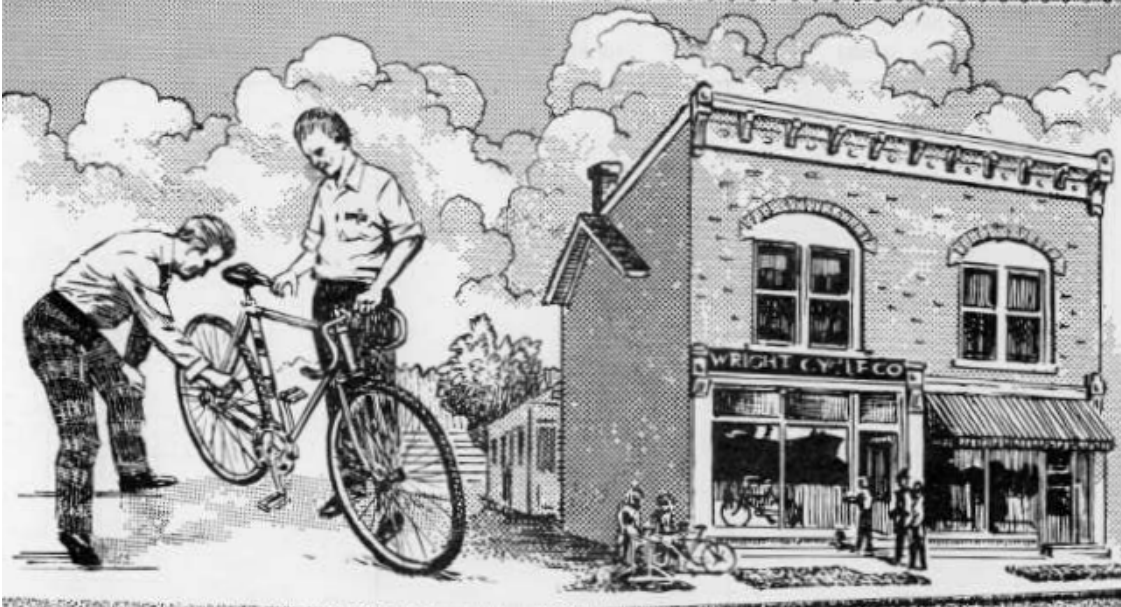
LATER ON, THE BICYCLE SHOP WAS USED TO WORK ON THEIR GLIDERS AND AIRPLANES.

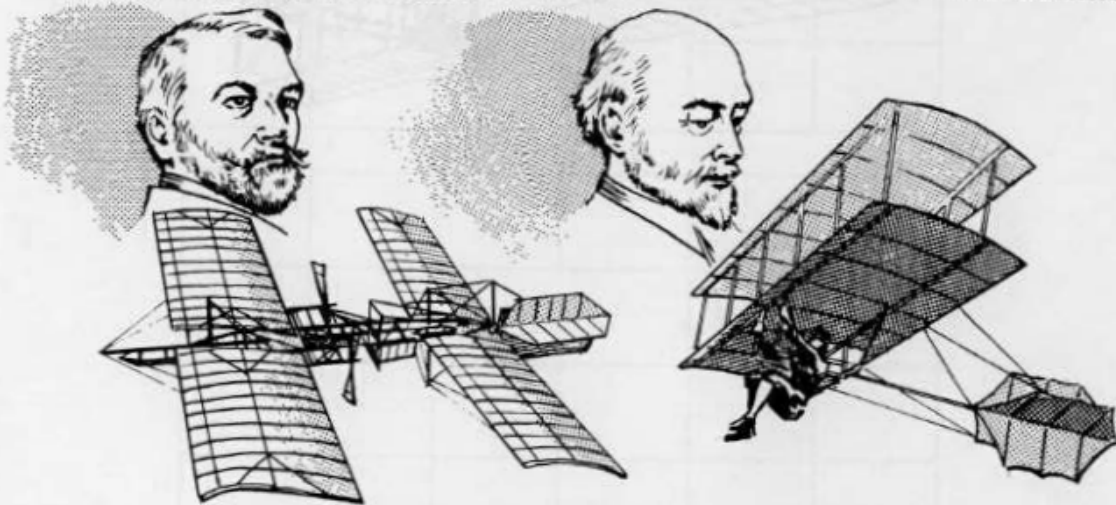# How many words can you make from WILBUR and ORVILLE WRIGHT?

Nouns (naming words)	Verbs (doing words)	Adjectives & Adverbs (describing words)

1899

THE WRIGHT BROTHERS DECIDED TO STUDY FLYING.

THEY RECEIVED INFORMATION WRITTEN BY...

Samuel Pierpont Langley and *Octave Chanute*

AFTER READING ALL THEY COULD FIND ABOUT FLIGHT, THE WRIGHT BROTHERS DECIDED TO BUILD A GLIDER.

COPY THE WRIGHT GLIDER
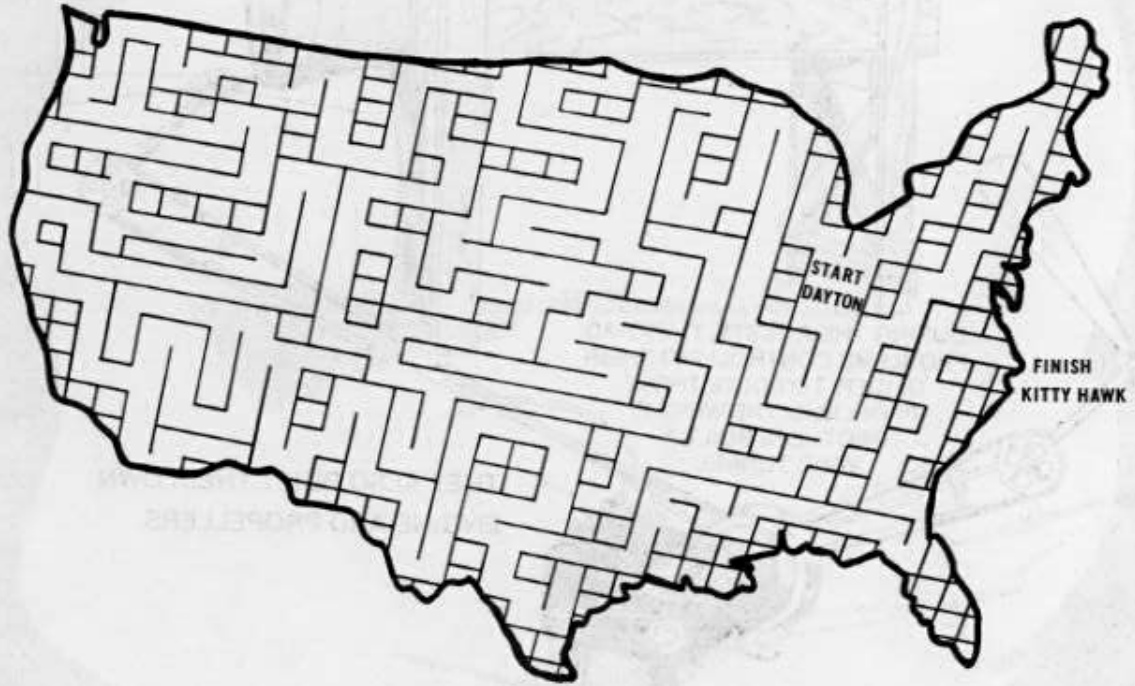
Use the blank grid to draw your own Wright glider.
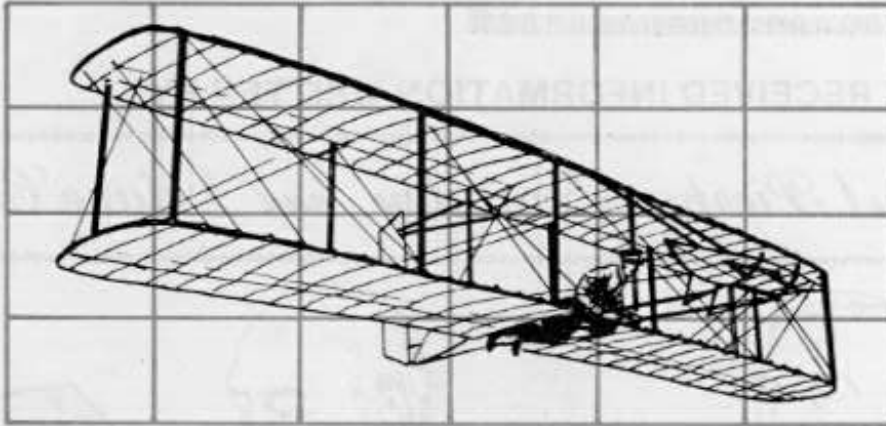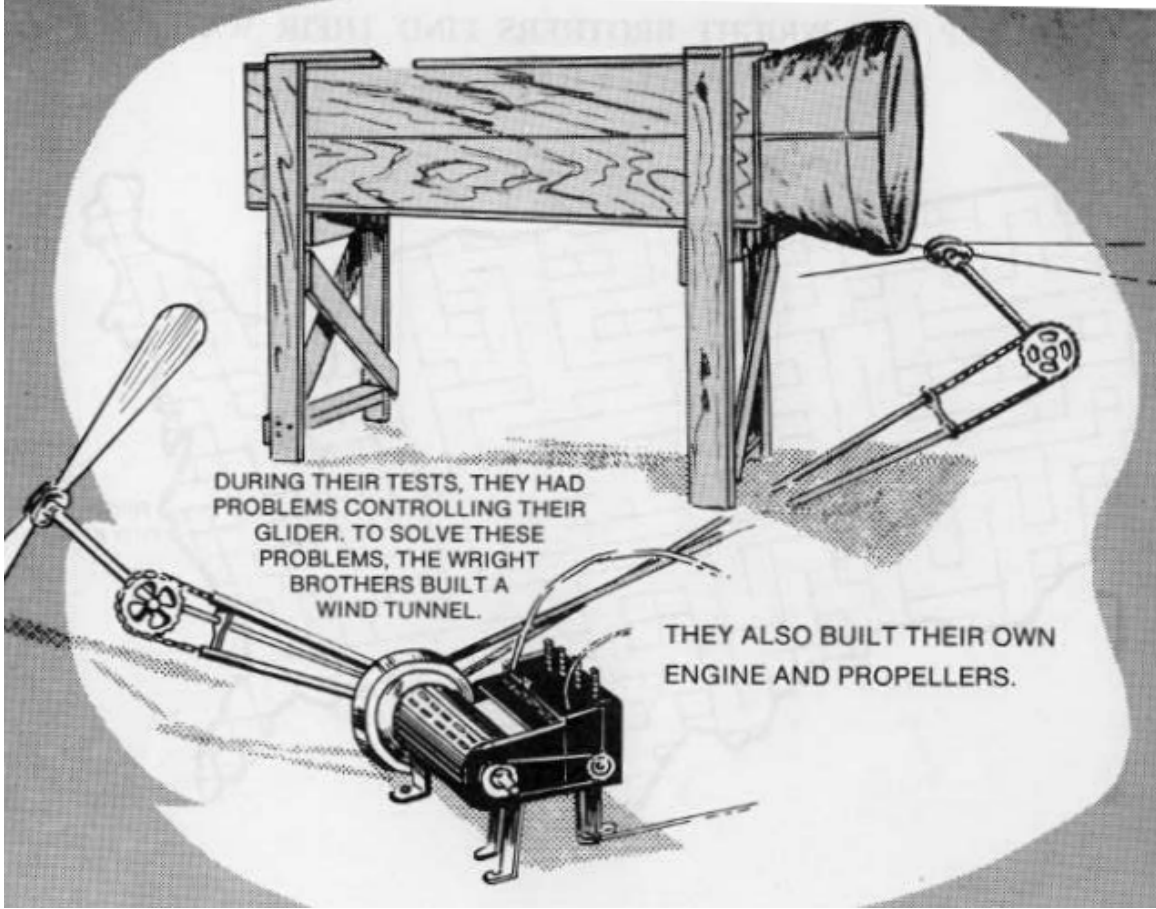
DURING THEIR TESTS, THEY HAD
PROBLEMS CONTROLLING THEIR
GLIDER. TO SOLVE THESE
PROBLEMS, THE WRIGHT
BROTHERS BUILT A
WIND TUNNEL.

THEY ALSO BUILT THEIR OWN
ENGINE AND PROPELLERS.

HELP THE WRIGHT BROTHERS FIND THEIR WAY TO KITTY HAWK

START
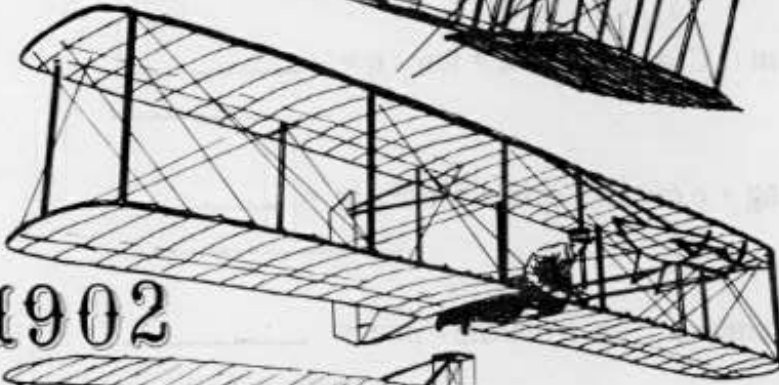DAYTON

FINISH
KITTY HAWK

THEY NEEDED A PLACE WHERE THE WIND WAS STRONG AND STEADY TO TEST THEIR GLIDER. THE WEATHER BUREAU SUGGESTED THE SAND DUNES AROUND KITTY HAWK, NORTH CAROLINA.
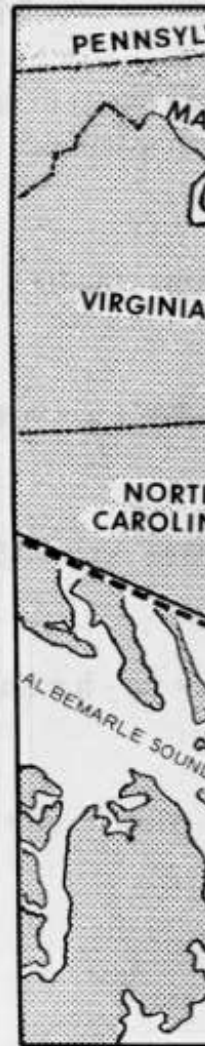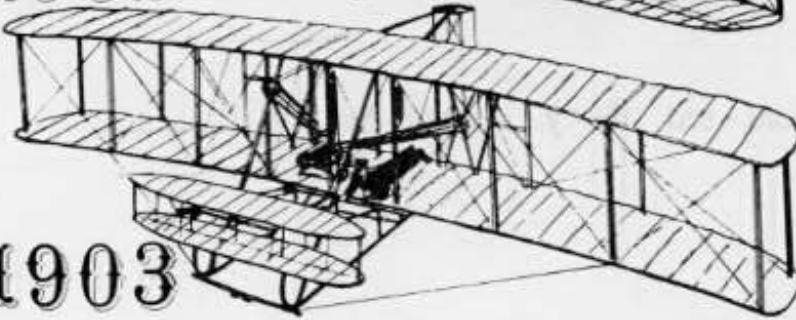
1901

1902

1903

PENNSYLV

MA

VIRGINIA

NORTH
CAROLIN

ALBEMARLE SOUND
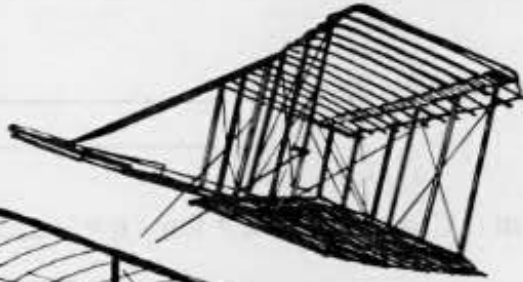
MAKE A WORD

Add and subtract letters to discover important things and people in the Wright brothers' work in aviation.
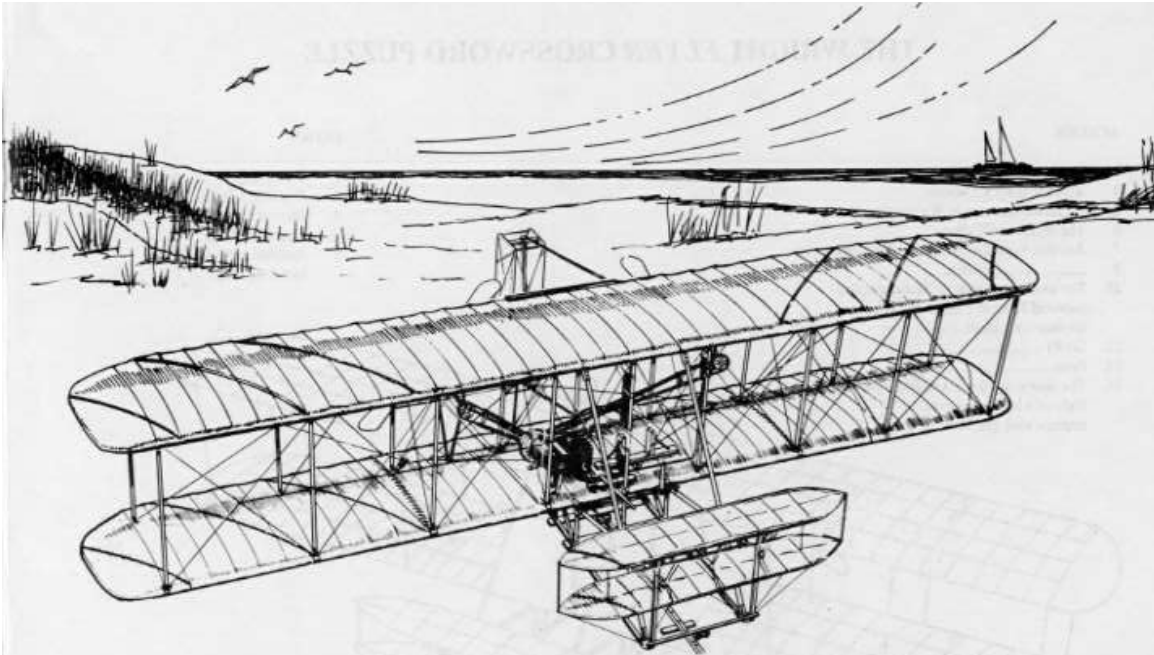
1. window - ow   tundra - dra + nellie - lie = _____

   _____

2. October - ober + a + vent - nt   Chanel - el + u + ten - n = _____

   _____

3. biology - ology + cycling - ing + e cream - eam + maze - m = _____

   _____

4. grass - r - s + oh - h + line   english - lish + marine - mar = _____

   _____

5. pow wow - wow + ere + deed - eed   fly - y + mighty - m - y = _____

IN THE WINTER OF 1903, THE WRIGHT BROTHERS RETURNED TO NORTH
CAROLINA WITH THEIR AIRPLANE WHICH THEY NAMED THE *FLYER*.

The 1903 Wright *Flyer*

ON DECEMBER 17, 1903, THE *FLYER* FLEW SUCCESSFULLY.
THIS WAS THE FIRST CONTROLLED POWERED FLIGHT OF A HEAVIER-THAN-AIR AIRPLANE IN HISTORY.

# THE WRIGHT FLYER CROSSWORD PUZZLE

ACROSS

1. The last name of Wilbur.
3. Another word for breezy.
5. A famous museum in Washington, DC.
6. The brother of Wilbur.
7. Another word for creation or discovery.

9. _____ Carolina.
10. The month in which the first controlled powered flight of a heavier-than-air airplane took place.
12. Go fly a _____
13. Paris, _____
14. The season the first controlled powered flight of a heavier-than-air airplane took place.
15. The state where Kitty Hawk is located.
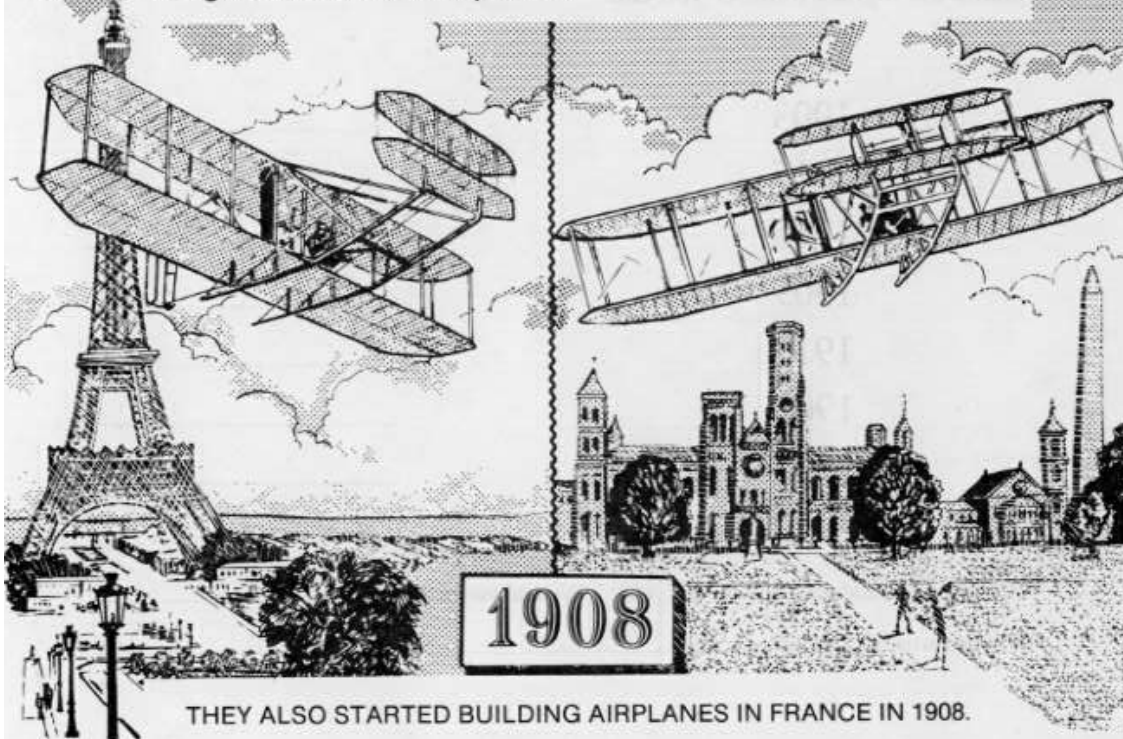16. Samuel Pierpont _____
17. Octave _____

ANSWERS ON PAGE 20.

Down

2. One, _____ three, etc.
4. Opposite of no.
6. Dayton, _____
7. Opposite of out.
8. Another name for a hotel, motel, or lodge.
11. Another name for a bicycle.
14. The lifting part of an airplane.
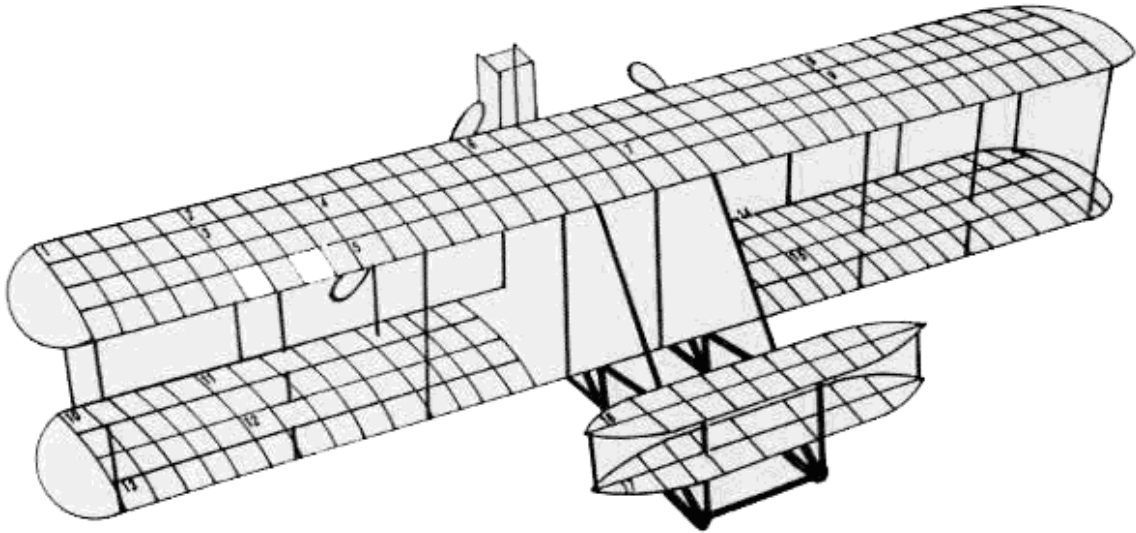
In 1908, the Wrights signed a contract to conduct flight tests for the U.S. Army. The tests were successful and the Army bought one of their airplanes.

1908

THEY ALSO STARTED BUILDING AIRPLANES IN FRANCE IN 1908.

NUMBER CHALLENGE

Using important dates in the Wright brother's lives, reorganize each number to make the highest number you can.

1903   _____

1917   _____

1915   _____

1909   _____

1910   _____
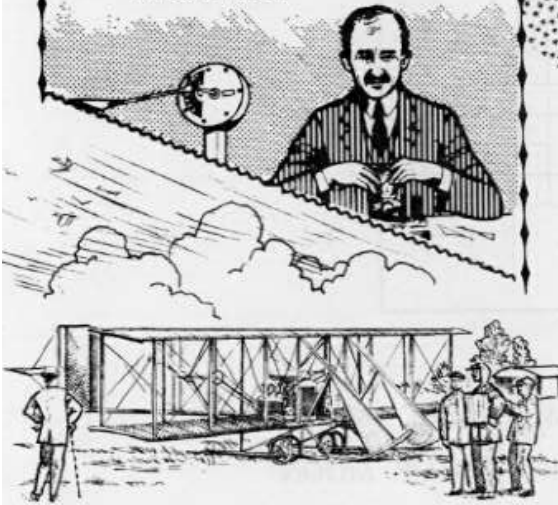
1908   _____

1907   _____

For added fun, add them all up. Now what is the total number? _____
Can you write it in words? _____

THE WRIGHT BROTHERS STARTED A NEW APPROACH TO AVIATION.

WILBUR DIED IN MAY 1912.

ORVILLE WORKED IN HIS PRIVATE LABORATORY UNTIL HE DIED IN JANUARY 1948.

WRIGHTS' 1909 IMPROVED VERSION HAD A 30-HORSEPOWER ENGINE.

FIRST IN AMERICA
AVIATION MEET
LOS ANGELES
JANUARY 10-20 1910
American & Foreign Aviators DAILY FLIGHTS

POSTER SHOWING THE FIRST INTERNATIONAL AVIATION MEET IN THE UNITED STATES.
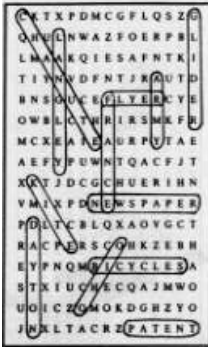
WRIGHTS' MEMORIAL

Fill in the puzzle with the things shown in the picture.
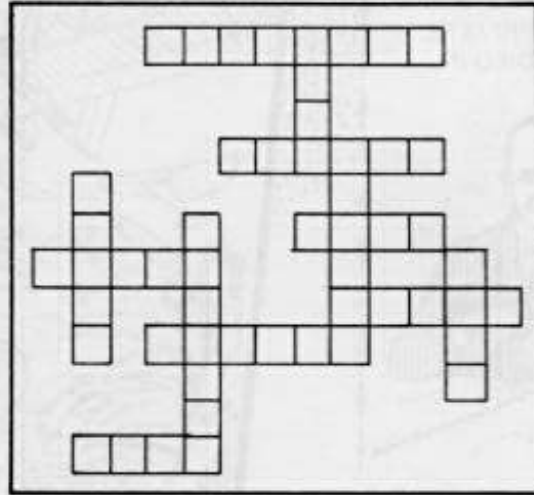
ORVILLE EAGLE KITE HANGAR CLOUD MONUMENT

WILBUR WING FLAG GLIDER MOTOR MOON

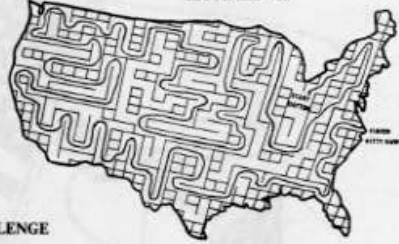# ANSWERS TO ACTIVITIES

Pg. 2 SEEK A WORD

Pg. 4 MATH TREASURE HUNT

1903 + 9 (Kitty Hawk) = 1912 − 1867 = 45 ÷ 5 = 9 x 2 (North Carolina)
= 18 + 17 = 35 x 6 (Wilbur) = 210 − 200 = 10 + 2 = 12
Answer — 12 Seconds

Pg. 12 MAKE A WORD

1) wind tunnel 2) Octave Chanute 3) bicycle craze
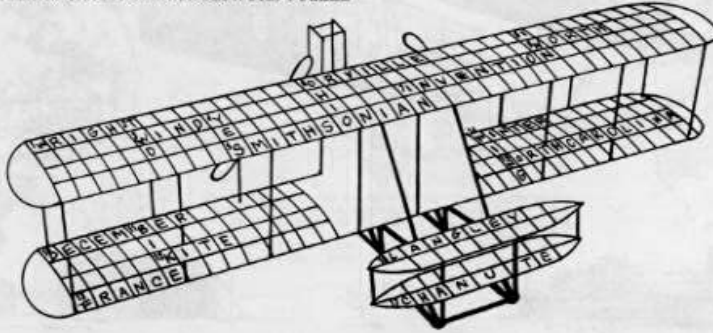4) gasoline engine 5) powered flight

Pg. 10 HELP THE WRIGHT BROTHERS FIND THEIR WAY TO KITTY HAWK

Pg. 16 NUMBER CHALLENGE

9310, 9711, 9511, 9910, 9110, 9810, 9710
Total = 67,072 — sixty-seven thousand and
seventy-two

Pg. 14 THE WRIGHT *FLYER* CROSSWORD PUZZLE

Pg. 18 WRIGHTS' MEMORIAL