

The Ninety-Nines, Inc.,® International Organization of Women Pilots®

Aviation Adventure Guide

Answer Key



Answer Key



MODULE 1

W R I G H T

R A T W A B E G L
A R N I
R I N
O N C D
B S A B
A T R U
T O R
I A I R M A I L G
C M H
S I
N
G
W I N G W A L K I N G

MODULE 2

First woman to fly solo over the Atlantic /Amelia Earhart

First US woman pilot /Harriet Quimby

First US woman to fly in space/Sally Ride

First woman mechanic/Phoebe Omlie

First woman airline captain/Emily Howell Warner

First African and Native American woman pilot/Elizabeth “Bessie” Coleman

First woman to win the Bendix Air Race/Louise Thaden

First woman fighter pilot/Jeannie Leavitt

First woman space shuttle pilot/Eileen Collens

First woman to break the sound barrier/Jacqueline Cochran

Module 3

1. b
2. b
3. c
4. b
5. b
6. a
7. b
8. a
9. b
10. c

Module 4

The Compass

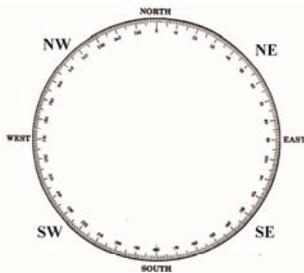
1. see below

B 360

C 180

D 090

E 270



Compass Navigation

1. NW/305
2. NE
3. South Western US
4. N
5. 300° or NW
6. SW 060

Navigation

Fort Worth 057	Houston 115
El Paso 275	Lubbock 320
Dallas 065	Corpus Christi 160
Laredo 175	Beaumont 105
Austin 130	Wichita Falls 021
Midland 280	Amarillo 335
Abilene 350	Waco 095

Module 5

Legends

1. 2/9th Street & 10th Street
2. 1st Street & Ave D
3. 7th Street & Ave A
4. 4th Street & Ave A
5. 3rd Street
6. Airport/Park
7. Movie Theater
8. Gas Station/Post Office
9. 3
10. Go w on 9th Street; N on Ave E; W on 6th Street; S on Ave B to the Zoo
11. 6th Street & Ave E/ Ave D & 3rd Street
12. 4

Grids

- D5 - Lanai
- B1 - Kauai
- C3 - Oahu
- F7 - Hawaii
- C5 -Molokai

Using a map scale

1. About 321
2. About 312
3. About 730
4. About 266
5. About 586
6. About 964

Map Reading

1. Wheatland
2. Cheyenne
3. NO
4. Big Horn
5. Unpaved road
6. I-80
7. Montana, Wyoming, South Dakota
8. (can be any 2 points with red dot)
9. B7
10. (can be any 2 rivers)

Longitude & Latitude

1. Pierre, SD
2. Helena, MT
3. Salem, OR
4. Richmond, VA
5. Little Rock, AR
6. Augusta, ME
7. Carson City, NV
8. Phoenix, AZ

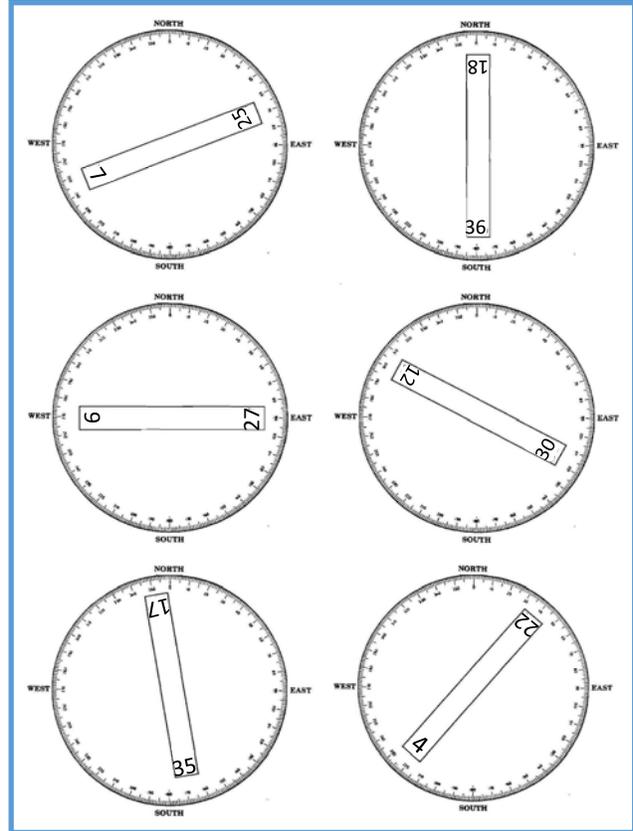
Module 6

Airport Signs

1. C
2. E
3. B
4. D
5. A
6. F

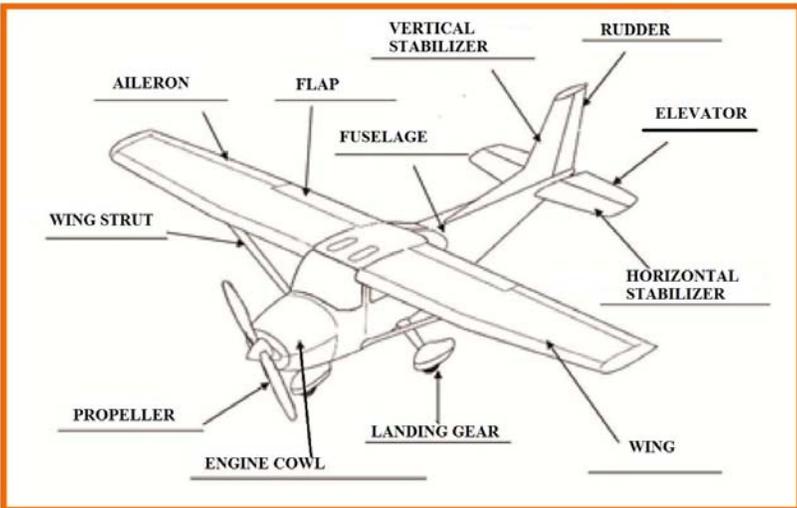
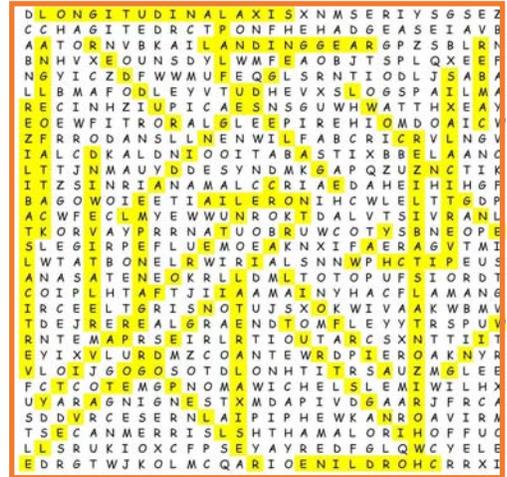
Airport Double Puzzle

1. TAXIWAY
2. CONTROLLER
3. BEACON
4. DEPARTURE
5. RUNWAY
6. CROSSWIND
7. HANGAR
8. FINAL APPROACH
9. TERMINAL



Module 7

Falling letters puzzle phrase: Airplanes fly because of Bernoulli's Principle. As air moves over the top and bottom of the wing, pressure on the top is less than pressure on the bottom and the wing has no choice but to move up because of the suction on the top and push from the bottom.



Module 8

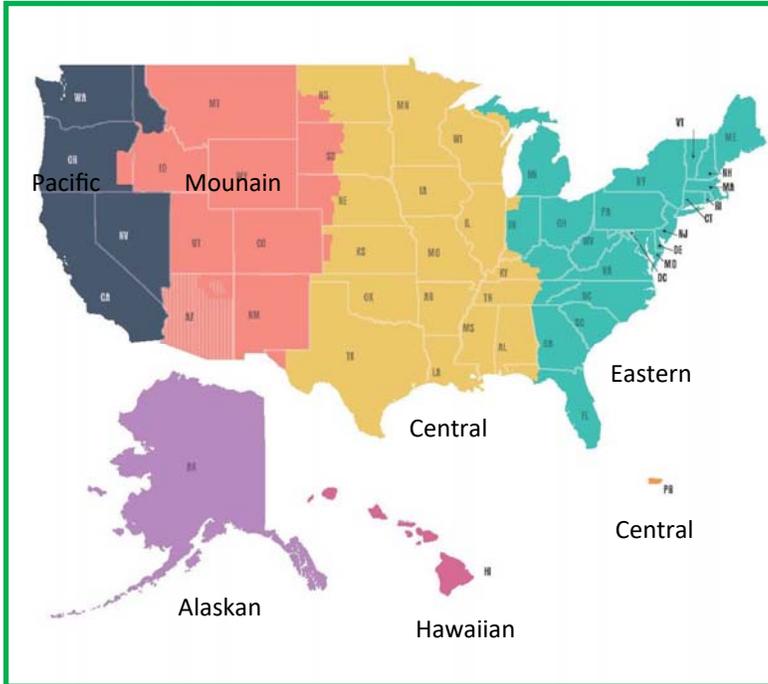
Phonetic Alphabet Crossword



Falling letters puzzle phrase: You can learn Morse Code to communicate with your friends in a fun and secret way!

Module 9

12 hour time	24 hour time	12 hour time	24 hour time
4:53 a.m.	0423	4:16 p.m.	1616
10:27 p.m.	2227	12:08 p.m.	1208
1:15 p.m.	1315	8:08 p.m.	2008
9:30 a.m.	0930	1:35 a.m.	0135
12:23 a.m.	0023	3:33 a.m.	0333
7:52 a.m.	0752	10:20 a.m.	1020
2:45 p.m.	1445	5:56 a.m.	0556
11:19 p.m.	2319	7:17 p.m.	1917
6:00 p.m.	1800	3:27 p.m.	1527



Fill in the blank - Convert the missing times

	12 -hr	24-hr	Zulu
1.	3:00pm EDT	1500	1900 Z
2.	6:54am EDT	0654	1054 Z
3.	1:30am EDT	0130	0530 Z
4.	12:05pm EDT	1205	1605 Z
5.	9:48pm EDT	2148	0148 Z
6.	4:05pm EDT	1605	2005 Z
7.	7:15am EDT	0715	1115 Z
8.	11:16pm EDT	2316	0316 Z
9.	2:37am EDT	0237	0637 Z
10.	10:58am EDT	1058	1458 Z

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

Module 10

Wind Barbs

- A. E or 90° @ 15 kts
- B. E or 90° @ 50 kts
- C. No wind
- D. S or 180° @ 20 kts
- E. W or 270° @ 35 kts
- F. N or 360° @ 65 kts

Weather Fronts

- A. Stationary Front
- B. Cold Front
- C. Occluded Front
- D. Warm Front
- E. SW 10 kts
- F. High Pressure system
- G. Low Pressure system

Weather Instruments

- 1. C
- 2. A
- 3. F
- 4. B
- 5. E
- 6. D

Weather Knowledge Crossword

