

Unit 7 Book exercises

Explore the theme

A.

1. Paul Cornu developed the first helicopter in 1907.
2. The person who completed the first signal flare was Martha Coston, in 1958.
3. The inventors of the Life Raft were Maria Beasley and Horace Carley on 1882.
4. I think the most important invention is the signal flare, because if you survive an accident, it's easier to find you by the signal flare.

B.

Describe

Invented

Machine

Definitions

- Engine: a machine with moving parts that converts power into motion.
- Drawing: a picture or diagram made with a pencil, pen, or crayon rather than paint.
- History: the study of past events, particularly in human affairs.
- Model: a system or thing used as an example to follow or imitate.

- Engineer: a person who designs, builds, or maintains engines, machines, or public works.
- Float: rest or move on or near the surface of a liquid without sinking.
- Sink: go down below the surface of something, especially of a liquid; become submerged.

Preparing to read

A.

1. b
2. e
3. d
4. c
5. a

B.

1. Will
2. Won't

C.

1. Pencil, feather, ball
2. Car, phone, computer
3. Car, plane, helicopter
4. Abraham Lincoln, Nikola Tesla, Albert Einstein

D.

The invention that this paragraph talks about it's an "amazing" clock, it was amazing because every half hour, model birds, dragons and people started to move.

Understanding the reading

A.

Engineer

Turkey

Eight hundred years

Jazari's elephant clock

Wrote a book

Engines

B.

C

D

B

E

A

C.

1. The opinion the author gives is that al-Jazari is probably one of the best engineers in history.
2. The evidence that he gives is that some historians call him the father of modern-day engineering.

Developing reading skills

A.

He – It's singular and masculine

It – It's singular and gender neutral

They – It's plural and gender neutral

Before viewing

A. I think the golden age in Puerto Rico was way before in the past were Spain had not colonized us.

B.

1. Impact
2. Foundations
3. Ingenious
4. Civilization

C.

1. Because many improvements that the roman empire did, were lost.
2. Because despite the lost improvements, many great achievements were made.

While viewing

A.

a

c

B.

1. c
2. b
3. a

After viewing

A.

1. The mother technology that benefited from this inventor is all types of cameras, from professional, to phone camera, to cinemas
2. The technology that may be benefited by his work are planes, helicopters, etc.
3. The technology that is benefited by his work are cars and many other machines.

B. I think the person who made the most useful discoveries is Al-Jazari, because most of the machines that we use today, came from the investigations of him.

Preparing to read

A.

1. Aim
2. Reason
3. Brilliant
4. Celebrated
5. Grew up
6. Huge
7. Programs
8. Discussing

B.

1. Christmas, birthday, thanksgiving
2. Many jobs require English, many studying books are in English, a lot of people talk English
3. Nikola Tesla, Isaac Newton, Marie Curie

C.

This reading is about Ada Lovelace, her achievement was being the first computer programmer.

Understanding the reading

A.

c

B. 18

Mathematician

17

Charles Babbage

Mathematic

Computer

Computer program

October 16

C.

1. The adjective that the author uses is brilliant.
2. The phrase that the author uses is “Ada Lovelace continues to be a role model”
3. The evidence that the author gives is that one of her notes describes step by step a calculation that the analytical engine could perform

D. The things that these two have in common are the fact that the inventions that they made, still around us but upgraded.

Exploring written English

A.

Create – created

Try – tried

Say – said

Have – had

Design – designed

Save – saved

Begin – begun

Invent – invented

Build – built

Grow up – grew up

Go – went

Discover – discovered

B.

Invented

Helped

Went

Died

Had

Needed

Could

Created

Became

Found

C.

1. Ada Lovelace lived in the 18 century
2. Ada Lovelace grew up in London
3. Ada Lovelace's mother was a mathematician
4. Ada Lovelace created a design of a flying machine when she was 13
5. Ada Lovelace met Charles Babbage when she was 17
6. Ada Lovelace wrote the first ever computer program in 1843

D.

1. Ada Lovelace was good at math.
2. She and Charles Babbage were friends.
3. Charles Babbage was a mathematician.
4. There were not many female scientists in Lovelace's time.
5. Lovelace's mother was not a computer programmer.
6. Al-Jazari was an engineer.
7. Al-Jazari and Ada Lovelace were not doctors.
8. Al-Jazari's elephant clock was not small.

E.

1. Isaac Newton was virgin
2. Albert Einstein was very intelligent

3. Nikola Tesla was not the inventor of many thing that were attributed to him.
4. Marie Curie was not a programmer.

Unit Review

1.

Lived

Tried

Stopped

Went

Met

Built

2. One example of modern-day technology that use al-Jazari's ideas is car engine.

3.

Reading 1:

Describe, drawing, engine, engineer, float, history, invent, machine, model, sink.

Reading 2:

Aim, brilliant, celebrate, discuss, grow up, huge, program, reason.