

Name _____

Date _____

The Industrial Revolution - Answer Key

Use the text to answer each question below.

1. At the start of the 1700s, most people's day-to-day lives moved slowly. Few people ever left their hometowns. Leisure and sports barely existed, and instead of shopping for things, most people made them. Usually, all members of a family worked all day, so the family was able to survive.

The Industrial Revolution, an 80-year period from about 1760 to 1840, set off an explosion of change, and history hasn't stopped flying since. The technology of the Industrial Revolution turned daily life upside down. It changed how people ate, where they lived and how they worked, traveled, communicated and simply spent their days.

Those who lived through the Industrial Revolution most likely

- A. never learned to use any technology. B. did not see any important historical changes.
- C. never did any shopping and always made their own goods.



D.

witnessed the development of new technology.

According to the text, "The technology of the Industrial Revolution...changed how people ate, where they lived and how they worked, traveled, communicated and simply spent their days." Those who lived through this period most likely saw the development of new technology.

2. Though the Industrial Revolution would later influence all nations, the technology explosion began in England. All of the ingredients needed for change were there: a strong economy fortified by riches brought back from the New World; an interest in science; a stable government; lots of coal to power new factories; and a huge population that could work in the new factories and buy what the factories made.

England's population growth could be traced to the invention of the seed drill. Invented by Jethro Tull in 1700, the seed drill made planting crops easier and, along with new forms of breeding and crop rotation, set off the agricultural revolution. Farming was easier than ever before, so people had more food to eat. Improved nutrition made people healthier, and they started living longer. This resulted in a huge population boom across Europe. In the 1800s, the population of Europe doubled, growing from 100 million to 200 million people.

Why did the seed drill spark population growth in England?

A. The seed drill could be used to cure diseases that had been keeping the population from growing for decades.



B.

The seed drill could be used to plant crops easier. This allowed people to eat more and live longer.

According to the text, "The seed drill made planting crops easier...so people had more food to eat. Improved nutrition made people healthier, and they started living longer."

C. The seed drill could be used to drill into plants and release their seeds sooner. This allowed farmers to make more money and afford better medicine.

D. The seed drill could be used to plant crops in a safer way. This allowed people to stop hurting themselves and dying from infections on the farm.

3. During this period, Thomas Newcomen and James Watt realized that steam could be used in a new and important way: to power machines. The steam engine used coal for energy. This meant factories no longer had to be near rivers to rely on water power, and they could produce goods quicker. Factories flourished and employed many people—including children—but working conditions were often very poor. Hours were long, the work could be dangerous and the pay was low.

Building on this technology, Richard Trevithick invented the steam locomotive, a train that runs on steam power. Suddenly, people and goods could travel faster and farther than ever before, and the world started to get a little bit smaller.

There were other important inventions as well. Eli Whitney's cotton gin, invented in 1793, changed the textile industry. It cleaned cotton 50 times faster. The telegraph, invented in the 1840s, drastically changed communications. Instead of writing letters that might have to be sent by a messenger on horseback, people could write messages tapped out in Morse Code and send them long distances over telegraph lines, almost like an old-school text message.

The invention of the steam engine



- A. meant factories could be built anywhere.

According to the text, "The steam engine used coal for energy. This meant factories no longer had to be near rivers to rely on water power."

- B. made the invention of the telegraph possible.

- C. allowed factories to rely on water power instead of coal.

- D. made Eli Whitney one of the most important figures of the Industrial Revolution.

4. This period saw a lot of urban migration as people, drawn by factory jobs, moved from the country to the city. However, many cities weren't ready or able to accommodate their growing population. Families often lived in tenements, which were overcrowded apartments, and the living conditions were terrible. Outhouses and toilets often drained to the same water people drank. Diseases like tuberculosis and smallpox spread quickly. Life expectancy was much lower in cities than in the countryside.

The photographer Jacob Riis published a book called *How the Other Half Lives*, showing how bad it was to live in urban slums. Eventually, cities began some of the programs that we are used to today, such as garbage removal and clean water and sewage management to improve the quality of people's lives.

People who moved to cities during the Industrial Revolution most likely

- A. lived longer than those who lived in rural areas.
- B. became sick less frequently than those in rural areas.
- ✓ C. had better access to factory jobs than those in rural areas.
- D. had cleaner living conditions than those in rural areas.

According to the text, the Industrial Revolution "saw a lot of urban migration as people, drawn by factory jobs, moved from the country to the city."

5. As factories became more widespread, people started fighting for the rights of factory workers. Labor laws began to limit the number of hours that children and women could work in Britain, and soon, children in factories were required to receive an education. However, abuses in factories didn't fully end because owners still tried to exploit their workers. The American journalist Upton Sinclair wrote a book called *The Jungle* in 1906. It exposed the terrible conditions for workers in meatpacking factories. Over a century later, the fight for workers' rights and fair labor practices continues throughout many different industries.

Which of the following statements about the Industrial Revolution's labor laws is false?

- A. They limited the number of hours that women could work in factories.
- B. They limited the number of hours that children could work in factories.
- ✓ C. They solved all issues related to workers' rights for the next century.
- D. They required children who worked in factories to receive an education.

According to the text, "Labor laws began to limit the number of hours that children and women could work in Britain." However, they did not solve all issues because today, "Over a century later, the fight for workers' rights and fair labor practices continues."

6. The Industrial Revolution was possible because England and America had capitalist or free enterprise economies. A country's economy is the way that goods and services are bought, sold and distributed. Under the capitalist system, if you think that a lot of people want to buy slippers that look like puppies, you can start a business making them. You can become an entrepreneur. And the more people want your puppy slippers, the more money you can make.

Adam Smith wrote about the benefits of capitalism in *The Wealth of Nations*. He believed that capitalism is fueled by self-interest and competition. Business owners are interested in making money (self-interest), and competition from similar businesses encourages them to make good quality products at a reasonable prices. For example, if someone else starts a puppy slipper business and their slippers are better and cheaper than yours, you're going to have to make some changes if you want your company to stay afloat. Theoretically, both self-interest and competition are good for consumers. One downside of capitalism is that business owners often have little reason to pay or treat workers well. This was true throughout the Industrial Revolution: Business owners became rich at the expense of their workers' lives.

Which of these statements would Adam Smith most likely agree with?

- A. You should start a company only if you have no competition.
- B. Self-interest plays no role in capitalism.
- C. Capitalism can only exist at the expense of workers' quality of life. ☒
- D. Self-interest and competition are good for a capitalist economy.

According to the text, "Adam Smith wrote about the benefits of capitalism" and "believed that capitalism is fueled by self-interest and competition."