

10. Great Scientist – Isaac Newton

WORKSHEET 1

COMPREHENSION

Read the following passage and answer the questions that follow.

The famous American author, Will Durant, writes in his book 'The Story of Civilization' about the Indian Civilisation: "It is true that even across the Himalayan barrier, India has sent to the West such gifts as grammar and logic, philosophy and fables, hypnotism and chess, and above all, numerals and the decimal system.

India was the mother of our race and Sanskrit the mother of Europe's languages. She was the mother of our philosophy, mother through the Arabs, of much of our mathematics, mother through Buddha, of the ideals embodied in Christianity, mother through village communities, of self-government and democracy. Mother India is in many ways the mother of us all."

Here are a few of the significant discoveries and inventions:

1. **The Hindu Numeral System:** Many people think we are using the Arab numeral system; but the Arab traders acquired the Indian mathematical system and shared it with the West. Several other mathematical principles have roots in India, and foreign scholars have been studying them.
2. **Zero:** It is one of the most important inventions in the world of mathematics. It has an impact on all fields. It has even led to the binary bits 0 and 1, which are critical in the world of technology.
3. **Cotton textiles:** The use of cotton textiles for clothing is a revolutionary Indian contribution to the world. The Columbia Encyclopaedia writes: "Hundreds of years before the Christian Era, cotton textiles were woven in India with matchless skill, and their use spread to the Mediterranean countries."
4. **Self-government and democracy:** Historians know about the ancient Indian Vaishali republic dating back to 600 BCE, almost 100 years before Athenian democracy. The most ancient form of Indian democracy is the 'panchayat' system which dates back more than 3000 years ago. But the modern-era colonial propaganda neglects this fact.

[Adapted from the Internet]

A. Answer the following questions.

1. Why does Will Durant say, "Mother India is in many ways the mother of us all"?
2. Why do people think we are using the Arab numeral system?

3. Why is zero critical in the world of technology?
4. Which is the most ancient form of Indian democracy?
5. What makes cotton textiles extraordinary in the history of the Indian civilization?

B. Complete the following sentences.

1. India has sent to the West such gifts as _____.
2. India was the mother of _____.
3. Historians know about _____, almost 100 years before the Athenian democracy.
4. The Columbia Encyclopaedia writes: "Hundreds of years before the Christian Era, _____."

WORKSHEET 2

GRAMMAR

A. Complete the following story using adverbs of manner from the box.

angrily swiftly humbly cleverly deceptively promptly clearly
loudly Immediately joyously deliberately

1. The animals ran through the forest _____.
2. He spoke to him _____.
3. "There is another lion in the forest, my lord," he said _____.
4. The lion roared _____.
5. "That is impossible," he said. "You are trying to deceive me _____."
6. "No, sir!" exclaimed the rabbit. "You can see him in the well _____."
7. The lion went with him _____.
8. He looked into the well and roared _____.
9. _____, the lion jumped in to kill the other lion.
10. The rabbit had _____ got rid of the cruel lion.
11. The animals celebrated their freedom _____.

B. Fill in the blanks with suitable adverbs of time from the box.

early regularly yesterday after today already
never later Tomorrow now

1. _____ we will see a film on Rabindranath Tagore.
2. Can we go to the park _____ as I have to finish my homework?
3. Rita could not come to school _____ as she has fever.
4. We go very _____ to meet my grandparents.
5. I have _____ been to the beach.
6. Wake up _____, then you will feel refreshed.
7. The butterflies will come _____ winter.
8. I have requested the teacher for a special class _____.
9. Which period do we have _____?
10. I was not in the class _____; what did you study?

C. Fill in the blanks using suitable adverbs of place from the box.

anywhere here there away over everywhere
outside nowhere where elsewhere

1. I had kept the pen _____ just now.
2. I have looked for it _____.
3. The house you are looking for is _____.
4. _____ have I seen such a silly hat!
5. The puppy went _____ with the old man.
6. _____ did you hear the sound?
7. Has anyone asked them to come _____ this morning?
8. Let Benny play _____, but not in the kitchen.
9. Please make sure that they clean the house _____ too.
10. I have not seen the shoes _____.

WORKSHEET 3

VOCABULARY AND WRITING

A. Select the correct synonyms for the words from the options.

- | | | | |
|------------|------------|------------|-------------|
| 1. Rough: | (a) silky | (b) coarse | (c) smooth |
| 2. Happy: | (a) joyous | (b) angry | (c) rude |
| 3. Bright: | (a) dull | (b) dark | (c) shining |
| 4. Pure: | (a) dirty | (b) clean | (c) messy |
| 5. Push: | (a) hug | (b) pat | (c) shove |

B. Name the people who do the following things.

1. Paints pictures: _____
2. Bakes cakes: _____
3. Directs films: _____
4. Sails ships: _____
5. Fights cases in a court: _____

C. Write three sentences about a happy weekend you have had.
