To Find the Value of Square Root Correct Up To Certain **Places of Decimal** A. Choose the correct answer: 1. To find the square root correct up to two decimal places, we continue division till. a) Two digits in quotient b) Two digits after decimal c) Four digits after decimal d) One digit in quotient 2. The value of $\sqrt{2}$ correct up to two decimal places is approximately. b) 1.42 a) 1.41 c) 1.40 d) 1.45 3. While using long division to find square root to decimals, pairs are made. a) Only before decimal b) Only after decimal c) On both sides separately d) No grouping is required 4. If you find $\sqrt{5}$ correct to two decimal places, it is approximately. a) 2.22 b) 2.23 c) 2.24 d) 2.25 5. The square root value correct to three decimal places for $\sqrt{3}$ is approximately. a) 1.732 b) 1.730 c) 1.731 d) 1.734 **B.** Write the Missing Terms to Complete the Sentences: 1. To find square root correct to decimal places, digits are grouped in pairs. 2. Extra are added after the decimal if needed to complete pairs. 3. $\sqrt{7}$ correct up to two decimal places is approximately . 4. Long division method helps in finding square root up to any required . 5. $\sqrt{10}$ correct to two decimal places is approximately

C. Figure out the answers to these questions:

- 1. Find the value of $\sqrt{6}$ correct up to two decimal places.
- 2. Find the value of $\sqrt{12}$ correct up to three decimal places.

- 3. Explain why extra pairs of zeros are added while finding square roots up to decimal places.
- 4. Find $\sqrt{15}$ correct up to two decimal places.
- 5. Find the value of V8 correct up to three decimal places using long division.
- D. Mark each sentence with a True (\checkmark) or False (X):
 - 1. To find square roots up to decimal places, we add pairs of zeros after decimal.
 - 2. $\sqrt{2}$ is exactly equal to 1.414.
 - 3. While finding $\sqrt{5}$ up to decimal places, we may get a non-terminating decimal.
 - 4. We do not require a decimal point while finding square root correct up to places.
 - 5. $\sqrt{9.00}$ is exactly 3.00.

E. Challenge yourself with these questions:

- 1. Find the approximate value of $\sqrt{11}$ up to two decimal places.
- 2. Write the steps to find the square root of 17 correct up to two decimal places.
- 3. Estimate $\sqrt{20}$ up to one decimal place.
- 4. Find $\sqrt{0.2}$ correct up to two decimal places.
- 5. Explain how the long division method helps in getting square root values up to decimals.