Finding the Ones and Tens Digits of the Square Root

A. Choose the correct answer:

1. If the square of a number ends in 9, its square root will end in

a) 3 or 7	b) 1 or 9
c) 2 or 8	d) 4 or 6

2. If the square of a number ends with 1, then the units digit of its square root is

a) 1 or 9	b) 2 or 8
c) 3 or 7	d) 4 or 6

3. The square of a number ending in 5 will always end in

- a) 0 b) 5
- c) 25 d) 15

4. The tens digit of the square root can be found by

- a) Guessing
- b) Estimating between two perfect squares
- c) Adding the digits
- d) Multiplying by 10

5. The number whose square ends in 6 must have unit digit

a) 2 or 8 b) 4 or 6 c) 1 or 9 d) 3 or 7

B ill in the blanks

1. If the square ends in 4, the unit digit of its square root is either _____ or

2. The square of 5 always ends with _____.

- 3. The tens digit of the square root depends on the _____ part of the number.
- 4. For numbers ending in 6, the square root ends in _____ or _____.
- 5. We check the nearest ______ squares to estimate the tens digit of the square root.

C. Figure out the answers to these questions:

- 1. Find the unit digit of the square root of 784.
- 2. If the square of a number is 4489, find the unit digit of its square root.
- 3. Find the possible ones digit of a number whose square ends in 1.

- 4. Explain the method to find tens and ones digit of square root of 7569.
- 5. If a number's square root has 7 at ones place, what can be the units digit of the square.

D. Mark each sentence with a True (\checkmark) or False (X):

- 1. A square ending with 6 has a square root ending with 2 or 8
- 2. If a square number ends with 1, the unit digit of its square root must be 2
- 3. If a square number ends with 5, its square root also ends with 5
- 4. To find the tens digit, we estimate the position of the number between perfect squares
- 5. The tens place digit is always found directly from unit digit of the number

E. Challenge yourself with these questions:

- 1. Find the unit and tens digit of the square root of 1521.
- 2. Find the possible unit digits for square roots of numbers ending in 9.
- 3. Explain why a square number ending in 2 cannot exist.
- 4. Find the unit digit of the square root of 1369.
- 5. Find the ones and tens digit of the square root of 6241.