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have es in er in ill be the the Ex. 6. Find the square root of $\frac{5}{7}$ to 3 places of deci.

Ex. LXXVII.

Find the square roots of (1) 196; 289; 625. (2) 841; 900; 1764. (3) 2401; 7569; 9604. (4) 12321; 40000; 388129. (5) 494209; 582169; 259081. (6) 1234321; 28547649. (7) 62504836; 33016516; 49112064. (8) 182493081; 47·61. (9) 008836; 445·336609. (10) 000633679929; 00000000009.

Find the square roots, each to four places of decimals, of (11) 51; 51. (12) 51; 051. (13) 806 52; 96304 993.

Find the square roots, each to 3 places of decimals where the root does not come out exactly, of (14) $\cdot 3$. (15) $\cdot 027$. (16) $4\frac{36}{49}$. (17) $\frac{2304}{3481}$. (18) $\frac{4\cdot 41}{\cdot 64}$.

(19) A father left his child a box, containing sovereigns, and shillings; the sovereigns were worth as many times the shillings, as the shillings were worth the box; the value of the box was 2s. 6d., and there were 5832 sovereigns in the box. How many shillings were there?

CUBE ROOT.

- 144. The CUBE of a given number is the product which arises from multiplying that number by itself, and then multiplying the result again by the same number. Thus 6×6 × 6, or 216, is the cube of 6; or $216 = 6^3$. Art. 86.
- 145. The CUBE Root of a given number is a number, which, when multiplied into itself, and the result again multiplied by it, will produce the given number. Thus 6 is the cube root of 216; for $6 \times 6 = 36$, and $36 \times 6 = 216$.

The cube root of a number is sometimes denoted by plac-