

SQUARES AND SQUARE ROOTS

PERIOD 3

SUBJECT: MATHEMATICS CHAPTER NUMBER: 3

CHAPTER NAME: SQUARES AND SQUARE ROOTS

CHANGING YOUR TOMORROW

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Learning outcome

Students will be able to **know and write** the solutions and way of presenting the additional questions given to solve.



Find the square root of 0.2916

	0.54
0.5	0.2916
	0.25
0.204	416
	416
	X



(iii)
$$\sqrt{108 \times 2028} = \sqrt{219024}$$

 $\sqrt{108 \times 2028}$

Hence,
$$\sqrt{108 \times 2028} = 468$$

OR

$$\sqrt{2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 13 \times 13}$$



 $=\sqrt{2\times2\times3\times3\times3\times2\times2\times3\times13\times13}$

Find the least number which must be subtracted from 2037 so that the resulting number is a perfect square.

Sol:

Clearly; if 12 is subtracted from 2037, the remainder will be a perfect square.

$$\therefore 2037 - 12 = 2035$$
 and $\sqrt{2035} = 45$



Find the least number which must be added to 5483 so that the resulting number is a perfect square.

Sol: Clearly, 5483 is greater than 74².

	74
9	5483
	49
144	583
	576
	7

On adding the required number to 5483, we shall be getting 75² i.e. 5625.
 Hence, the required number = 5625 - 5483 = 142



Home assignment

Exercise 3(B) -9 to 14



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