

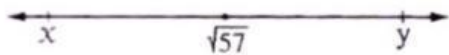
11 What is the length of the side of a square with an area of 10 cm^2 ?

- (a) 5 cm (b) -5 cm
(c) $\sqrt{10} \text{ cm}$ (d) $-\sqrt{10} \text{ cm}$

13 If x is a negative real number, which of the following numbers is positive ?

- (a) x^2 (b) x^3
(c) $2x$ (d) $\frac{x}{2}$

15 If x and y are two consecutive integers, what is the value of $x + y$?



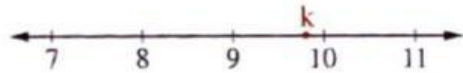
- (a) 11 (b) 13
(c) 15 (d) 17

12 What is the solution set of the equation :

$x^2 + 1 = 0$ in $\mathbb{R}$?

- (a) $\{-1\}$ (b) $\{1, -1\}$
(c) $\{1\}$ (d) $\emptyset$

14 Which of the following numbers is represented by k on the number line below ?



- (a) $\sqrt{86}$ (b) $\sqrt{96}$
(c) $\sqrt{81}$ (d) $\sqrt{78}$

16 If $\frac{1}{a}$, $\frac{a}{\sqrt{5}}$ are two real numbers between zero and 1, what is the value of a ?

- (a) -4 (b) 1
(c) $\sqrt{5}$ (d) 2