



## Nalanda College – Colombo 10

### 3<sup>rd</sup> Term Test

### Mathematics – 2020

#### Grade - 8

Time – 01 hours

## 8 – Square root

(1) Complete the table.

Number	Write as a square	Find the square root	Square root
2	$2^2$	$\sqrt{4}$	2
5	.....	.....	5
.....	.....	.....	6
.....	.....	$\sqrt{49}$	.....
900	.....	.....	.....
.....	.....	.....	40

(2) Find the square root.

(i)  $\sqrt{16}$  = .....

(ii)  $\sqrt{64}$  = .....

(iii)  $\sqrt{4 \times 25}$  = .....

(iv)  $\sqrt{4 \times 16 \times 4}$  = .....

(v)  $\sqrt{\frac{25}{100}}$  = .....

(vi)  $\sqrt{\frac{8}{18}}$  = .....

(3) Write as a product of two factors.

(i)  $\sqrt{2^2}$  = .....

(ii)  $\sqrt{2^2 \times 5^2}$  = .....

(iii)  $\sqrt{5^2 \times 7^2}$  = .....

(iv)  $\sqrt{3^2 \times 5^2 \times 7^2}$  = .....

(v)  $\sqrt{a^2 \times b^2}$  = .....

(vi)  $\sqrt{2^2 \times x^2 \times y^2}$  = .....

(vii)  $\sqrt{p^2 \times q^2 \times r^2}$  = .....

(viii)  $\sqrt{5^2 \times a^2 \times b^2}$  = .....

(4) Find the square root using factors.

(i)  $\sqrt{576}$  = ..... (ii)  $\sqrt{1600}$  = .....

(iii)  $\sqrt{784}$  = ..... (iv)  $\sqrt{1156}$  = .....

(v)  $\sqrt{1764}$  = ..... (vi)  $\sqrt{2304}$  = .....

(5) If the area of the rectangular land is  $1024\text{m}^2$ .

(i) Find the length of a side.

(ii) Find the perimeter.



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