

## Test Algebra prep 2 First term

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*Answer the following questions :*

**1** Choose the correct answer :

1 The mode of the values : 5 , 6 , 7 , 7 is .......

(a) 1 (b) 6 (c) 5 (d) 7

2 If  $\sqrt[3]{x} = 4$  , then  $x =$  .....

(a) 4 (b) 16 (c) 64 (d) 12

3 A cube with edge length 6 cm. , then its total area is ..... cm<sup>2</sup>

(a) 144 (b) 36 (c)  $6\sqrt[3]{6}$  (d) 216

4  $[2 , 5] - \{5\} =$  .....

(a)  $[2 , 5[$  (b)  $\emptyset$  (c)  $]2 , 5[$  (d)  $\{2\}$

5 The slope of the straight line passing through (2 , 4) and (4 , 6) is .....

(a) -1 (b) 1 (c) 7 (d) zero

6 The greatest integer number non-positive is .....

(a) 1 (b) -1 (c) zero (d)  $-\infty$

## 2 Complete :

**1** The centre of a set is 10 and its upper limit is 12 , then its lower limit is .....

**2** If  $x = \sqrt{5} + 2$  ,  $y = \sqrt{5} - 2$  , then  $(x + y)^2 =$  .....

**3** If (a , 3 a) satisfies the relation :  $2x + y = 15$  , then a = .....

**4** The median of the values : 17 , 14 , 19 , 4 and 10 is .....

**5** The dimensions of a cuboid are  $\sqrt{5}$  cm. ,  $\sqrt{2}$  cm. and  $\sqrt{10}$  cm. , then its volume = ..... cm<sup>3</sup>

**6** The slope of any straight line parallel to X-axis is .....