Test Algebra prep 2 First term

Mr. Mohamed Fouad

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^2

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

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

(a) $[2 , 5[$ (b) $\varnothing$ (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^3

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

LIVEWORKSHEETS