# DAV BORL PUBLIC SCHOOL, BINA 

REVISION WORKSHEET FOR SA1 (SESSION 2013-14)


Select one correct answer out of the four options given.

1. Point at which the two perpendicular axes meet, is known as :
(a) Centre
(b) vertex
(c) coordinate
(d) origin
2. $20-30$ is a class interval, the 25 is its -
(a) Lower limit
(b) Range
(c) Class mark
(d) Frequency
3. $L, m, n$ are lines such that $m \perp I, n \perp I$, then
(a) $m \perp n$
(b) $m \| n$
(c) $m \| I$
(d) $1 \| n$
4. When $K$ is any constant for two quantities $x$ and $y$ which vary inversely then :
(a) $\frac{x}{y}=\mathrm{K}$
(b) $x+y=K$
(c) $x-y=K$
(d) $x y=K$
5. Value of $\sqrt{40+\sqrt{81}}$ is :
(a) 11
(b) 121
(c)
(d) 29

## SECTION - B

6. If cost price of 18 mangoes is the same as the selling price of 16 mangoes. Find the gain percent.
7. Find the smallest number by which 392 must be multiplied so that the product is a perfect cube.
8. Expand $(-3 x+4 y-5)^{2}$
9. Find the greatest number of 4 digits which is a perfect square.

## SECTION - C

10. Simplify $\left(a^{2}-b^{2}\right)\left(a^{2}+b^{2}\right)-\left(a^{2}-b^{2}\right)^{2}$
11. A shopkeeper purchased 200 bulbs for Rs 10 each. However 5 bulbs were fused and had to be thrown away. The remaining was sold at Rs 12 each. Find the gain or loss percent.
12. Find the value of $\sqrt{2}$, correct upto two decimal places.
13. If $5 x-2 y=7$ and $x y=2$, find the value of $(5 x+2 y)^{2}$

SECTION - D
14. Sangeeta allows $8 \%$ discount on the marked price of a suit and still makes a profit of $15 \%$. If her gain over the sale of a suit is Rs 156 . Find the marked price of the suit.
15. A train 120 m long is running at a speed of $50 \mathrm{~km} / \mathrm{hr}$. What time will it take to cross a 130 m long bridge?
16. Bharti bought two fans for Rs 1200 each. She sold one at a loss of $5 \%$ and the other at a profit of $10 \%$. Find the total profit or loss.

