# DAV BORL PUBLIC SCHOOL, BINA <br> REVISION WORKSHEET FOR SA1 (SESSION 2013-14) 

CLASS - VII
SUBJECT-MATHEMATICS

## SECTION- A

Select one correct answer out of the four options given,

1. If $\frac{5}{8}=\frac{20}{p}$, then the value of $p$ is
(a) 23
(b) - 23
(c) 32
(d) 2
2. Which of the following is not equal to $\frac{1}{2}$
(a) $5 \times 10^{-1}$
(b) $0.5 \times 10^{-1}$
(c) $0.05 \times 10$
(d) $0.005 \times 10^{2}$
3. If in $\triangle A B C, \angle C=90^{\circ}, A C=3 \mathrm{~cm}$ and $B C=4 \mathrm{~cm}$, then $A B$ equals:-
(a) 3.5 cm
(b) 5 cm
(c) 7 cm
(d) 25 cm
4. The Arithmetic mean of $8,2,5$ is
(a) 8
(b) 2
(c) 5
(d) 15
5. The reciprocal of $\frac{-1}{9}$ is
(a) 9
(b) -9
(C) $\frac{1}{9}$ (d) $\frac{9}{2}$

## SECTION - B

6. Compare the rational numbers $-\frac{4}{9}$ and $\frac{5}{-6}$
7. $\triangle A B C$ is isosceles with $A B=A C$. If $\angle A=70^{\circ}$, what is the measure of $\angle B$ ?
8. Find the median of the following data.
$11 ; 39 ; 43 ; 45 ; 25 ; 46 ; 43 ; 42 ; 37$
9. By what number should be multiply $2^{-5}$ so that the product may be equal to $2^{-1}$.
10. Express -9.6 as rational number in standard form.

## SECTION - C

11. The heights of 10 boys were measured in cm and the result were as follows :-
(i) What is the height of the tallest boy?
(ii) What is the range of the data?
(iii) Find the mean height?
12. In the figure $A B \| C D$ and $A B=C D$

(i) Is $\angle \mathrm{BAC}=\angle \mathrm{DCA}$ ? Why?
(ii) Is $\triangle \mathrm{ABC} \cong \triangle C D A$ by SAS congruence condition?
(iii) State the three facts you have used to answer (ii)
13. If $\left[\frac{2}{9}\right]^{-6} \times\left[\frac{2}{9}\right]^{3}=\left[\frac{2}{9}\right]^{2 x-1}$ then find the value of $x$

## SECTION - D

14. By taking $x=\frac{-5}{3} ; y=\frac{2}{7}$ and $z=\frac{1}{-4}$ verify that $(x+y) \div z=x \div z+y \div z$
15. Simplify and express the result as decimals $(75.05 \div 0.05) \times 0.001+2.351$
16. Two poles of heights 6 m and 11 m stand on a plane ground. If the distance between their feet is 12 m , find the distance between their tops.
17. A right angle triangle is isosceles. If the square of the hypotenuse is 50 m , what is the length of each of its side?
