

THE INDIAN HIGH SCHOOL, DUBAI
MATHS ASSIGNMENT

DATE: 01-12-08

GRADE – “9”

1. The median of the following observations arranged in ascending order is 24. Find x.
14, 18, $x+2$, $x+4$, 30, 34.
Using the values of x, find the mean of the above data.
2. The mean of 1, 7, 3, 5, 4, and 4 is m. The observations 3, 2, 4, 2, 3, 3 and p have mean $(m-1)$ and median q. Find p, q.
3. Find the median and mode of the following:
24, 17, 13, 24, 26, 20, 26, 30, 8, 41, 24.
If one of the 24's is replaced by 26 find the new median and mode.
4. Determine the median of 24, 23, a, $a-1$, 12, 16 where a is the mean of 10, 20, 30, 40, 50.
5. One side of a right triangle measures 126m and the difference in lengths of its hypotenuse and other side is 42m, find the measure of its two unknown sides, and calculate its area.
Verify the result using Heron's formula.
6. The perimeter of a right triangle is 144cm and its hypotenuse measures 65 cm find the other sides, and calculate its areas.
7. Find the perimeter of an isosceles right triangle having an area of 200cm^2 .
8. The sum of two angles is 115° and their difference is 25° find
all the angles of the triangle.
9. In triangle ABC if $2\angle A = 4\angle B = 12\angle C$ Calculate the angles.
10. Determine graphically the vertices of the triangle, the equations of whose sides are given as : $2y - x = 8$,
 $5y - x = 14$, $y - 2x = 1$

