CHINMAYA INTERNATIONAL RESIDENTIAL SCHOOL
COIMBATORE
ENTRANCE EXAM: SAMPLE PAPER
(FOR ADMISSION TO ACADEMIC YEAR 2014)

CLASS: XI CBSE   **SUBJECT: MATHS**
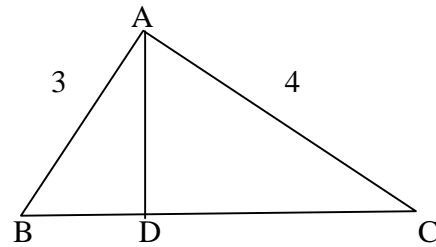
1. The next number in the sequence $1,1,2,3,5,8,13,21, \dots$ is

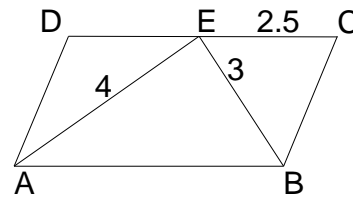   A. 25   B. 30   C. 34   D. 39

2. In the following figure, $\angle A = 90°$ and $\angle D = 90°$. The length BD is

    A. 2.2   B. 1.2

    C. 3.2   D. 1.8

3. In the following parallelogram ABCD, E is the mid point of DC. The area of triangle AEB is

    A. 7.5 sq. units   B. 4 sq. units
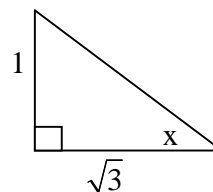
    C. 5 sq. units   D. 6 sq. units

4. The median of the data 3, 4, x + 4, x + 6, 12, 15 is 9. These values are arranged in ascending

    order. Then the value of x is

    A. 1   B. 2   C. 3   D. 4

5. The angle ' x ' in the following figure is

    A. 30°   B. 45°

    C. 60°   D. 90°

6. The area of the base of a cylinder is 16π cm² and its height is 21 cm. Its volume is

    A. 1560 cm³   B. 1056π cm³   C. 1650 cm³   D. 1056 cm³

7. If $3\tan\theta = 4$, then the value of $\left(\dfrac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta}\right)$ is

    A. $\dfrac{4}{3}$ B. $\dfrac{7}{3}$ C. $\dfrac{3}{4}$ D. none of these