

Sample Paper 1
ICSE Class 7
MATHEMATICS

Time: 2.5 hrs

F.M. 80

Section-A (40 Marks)

Answer all questions from this Section

1. (i) Simplify giving your answer with positive index: [2x5]

$$\left[\frac{1}{4ab^2c} \right] \div \left[\frac{3}{2a^2bc^2} \right]^4$$

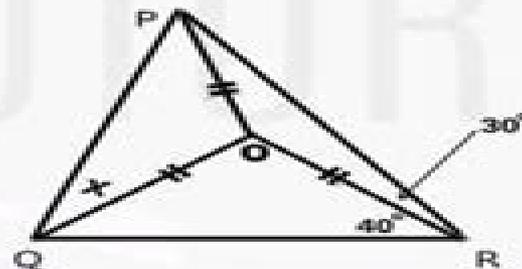
- (ii) Evaluate: i

(iii) A coin is tossed 300 times and we get head 136 times and tail 164 times. When the coin is tossed at random, what is the probability of getting: (a) a head (b) a tail

- (iv) Represent the following set in set builder form:

$$A = \left\{ 1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5} \right\}$$

- (v) Calculate the value of 'x' in the adjoining figure:



2. (i) If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16\}$ [3X10]

$A = \{x : x \text{ is a factor of } 12\}$ and $B = \{x : x \text{ is a factor of } 16\}$

Find: (a) Set A and set B in roster form :

- (b) $(A-B) \cup (B-A)$ (c) $(A \cup B)$

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Lei Huang



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