PONDA SCHOOLS' ASSOCIATION
JOINT FIRST SUMMATIVE EXAMINATION, OCTOBER 2018

School : _____

SEAT NO. : | | | | | |
(in figures)

SEAT NO. : | | | | | |
(in words)

STD. : VIII DIV :

Sub : **MATHEMATICS (Question-Cum-Answer Paper)**

Language of Answer _____ No. of Pages : 8

Date : 29-10-2018 **Time : 2 hours.** **Max. Marks : 50**

Supervisor's Signature with date : _____

Questions	Marks obtained	
	Examiner	Moderator
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
Total :		

Q. 1 (A) Select and write the Correct alternative from those provided (1)

The multiplicative inverse of $\frac{5}{7}$ is _____

$\left(\frac{5}{7}, -\frac{7}{5}, \frac{7}{5}, -\frac{5}{7}\right)$

B) Find four rational numbers between $\frac{2}{3}$ and $\frac{4}{5}$ **2**

C) Represent the following numbers on number line. **2**

1) $\frac{7}{4}$ 2) $-\frac{5}{6}$

D) **Solve the following equations.** 2

1) $7x - 11 = 1 + x$

2) $14y - 8 = 13$

E) **Attempt the following :** 1

1) **Covert the ratio 3 : 4 into percentage.**

2) **The sum of three consecutive positive integers is 51. Find the integers.** 2

Q. 2 A) **Select and write the correct alternative from those provided in the bracket :** 1

The number $\frac{2}{9}$ added to $\frac{4}{5}$ gives _____

$\left(\frac{6}{45}, \frac{46}{45}, \frac{2}{45}, \frac{8}{45}\right)$

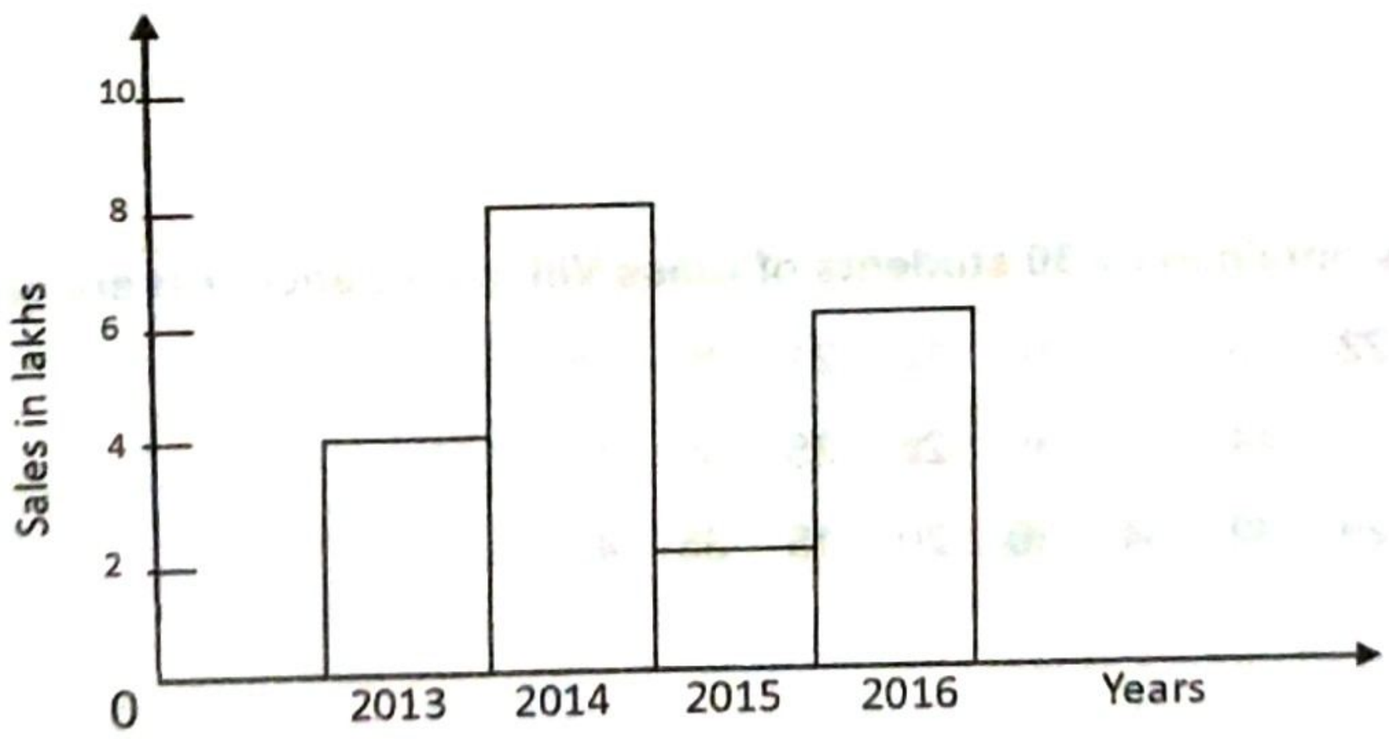
B) **Find the square root of Any one of the following : by Division Method.** 2

1) 5042 2) 42.25

C) **Write a Pythagorean triplet whose one member is 14.** 2

D) **Find the compound interest on Rs. 16400 for 2 years at 12% p.a. compounded annually.** 3

E) **The following Histogram shows the sales of vehicles for a manufacturing company. Refer the Histogram and answer the following questions.** 2



1) In which year the least number of vehicles were sold ?

2) Find the difference in number of sales of vehicles between the year 2016 and 2013.

Q. 3 A) Select and write the correct alternative from those provided in the bracket : 1

The selling price of a bag marked at Rs. 250 after 20% discount will be Rs. _____

(210, 180, 200, 230)

B) Find the Cube root of Any one of the following by Prime Factorisation method. 2

1) 10648 2) 3375

C) Find the Square of Any one of the following number without actual multiplication. 2

1) 34 2) 53

D) The marks obtained by 30 students of Class VIII in a science test are given below. 3

41	37	22	33	9	16	12	21	49	35
19	23	22	44	31	36	26	25	30	11
48	46	29	32	34	30	20	15	35	42

Form a grouped frequency distribution table by taking class interval as 0-10, 10-20 and so on.

E) **Find the smallest number by which 256 must be multiplied to obtain a perfect cube. Also find the cube root of the perfect cube so obtained.** **2**

Q. 4 A) **Select and write the correct alternative from those provided in the bracket :** **1**

The number of diagonals for a regular hexagon is _____

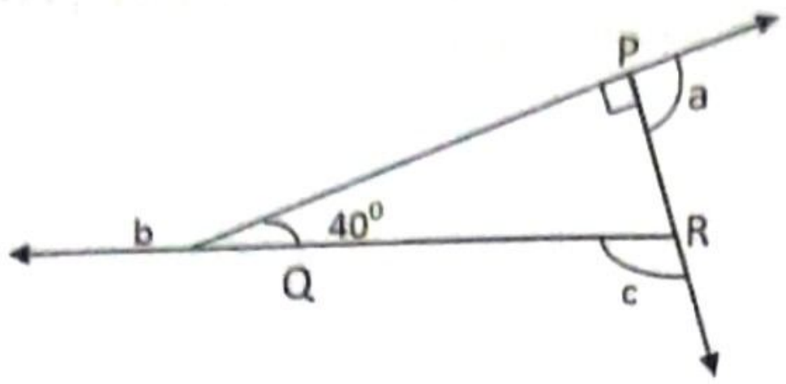
(6, 5, 9, 8)

B) **Attempt the following :**

1) A bag contains 3 red, 2 blue and 5 yellow balls. If one ball is drawn at random, find the probability of getting a red ball. **1**

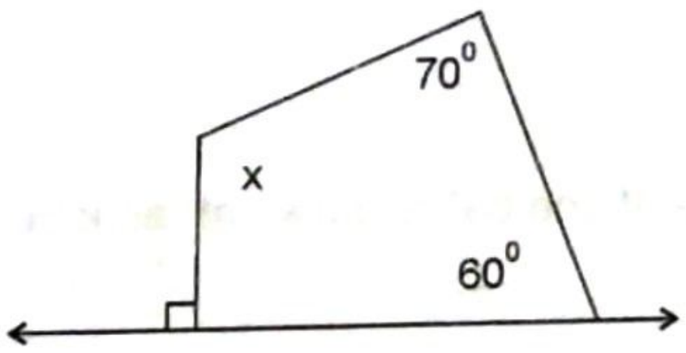
2) Find the measure of each exterior angle of a regular polygon having 8 sides. 1

C) In the following figure, find a + b + C 2

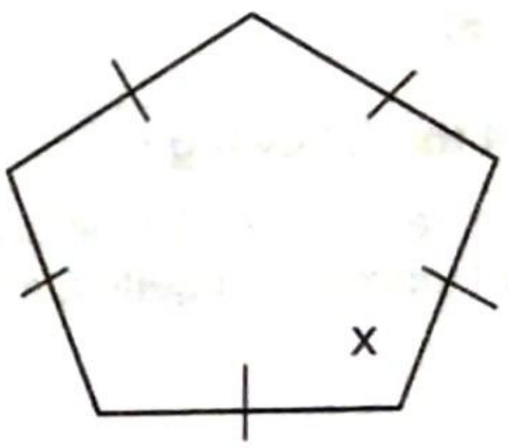


D) Find the angle measure 'x' in the following figures. 2

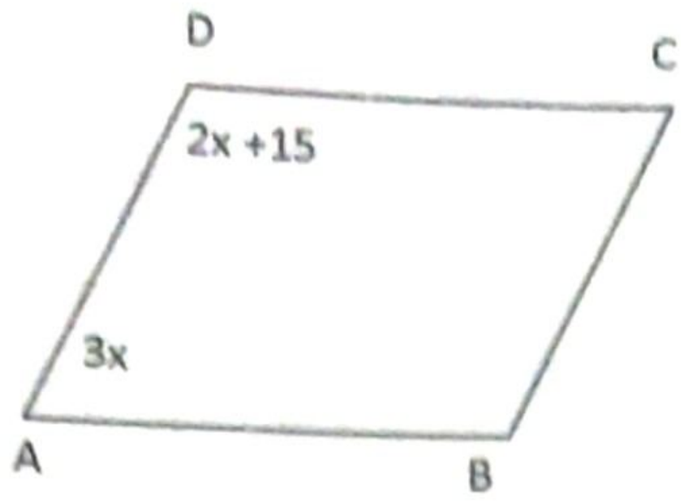
1)



2)



E) **Construct a ❑RUNS, where RU = 4cm, UN = 4.5 cm, SR = 3.5cm, RN = 5.5 cm and US = 6cm** 3



Q. 5 A) Select and write the correct alternative from those provided in the bracket : 1

The sum of the angles of a regular hexagon is _____ ^{0}

(180, 360, 540, 720)

B) **In the parallelogram ABCD, $\angle D = (2x + 15)^0$, $\angle A = 3x^0$ Find the value of X.** 2

C) Construct a parallelogram PQRS in which QR = 6cm, RS = 4.5cm and QS = 7.5 cm. 3

D) Construct a □ MORE where MO = 4cm, OR = 5cm, RE = 4.5cm RE = 4.5cm, $\angle O = 60^0$ and $\angle R = 90^0$, measure and state the length of EM. (Use a ruler and pair of compasses to construct the angles) 4