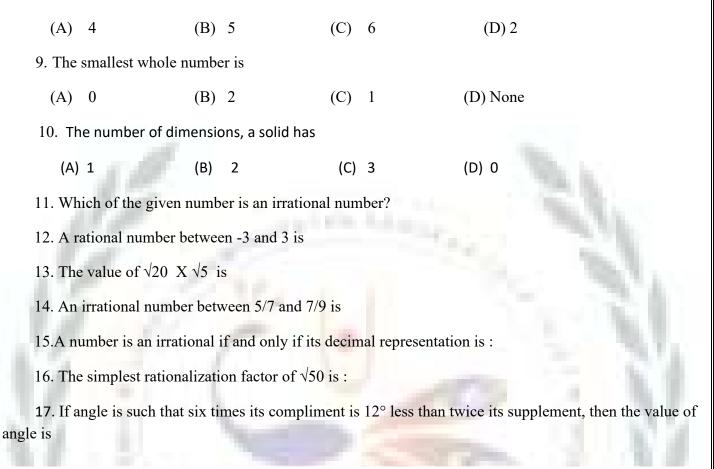
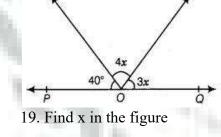


## भु•ना International School

		Sample Paper	I	
Student Name		Grade 9 <sup>th</sup>		
Date		Subject	MAT	HEMATICS
General Instruction:	Time	<b>Total Marks</b>		80
Questions from 21 to Question from 29 to	20 are carries 1 Marks 528 are carries 2 Marks 38 carries 3 Marks eac 46 carries 4 Marks eac	s each. ch.		4
	Sectio	on – A		[1X 20= 20]
olve 1 to 20 questions	s each carry 1 mark			
1 The absolute valu	ue of  -23 is			
(A) - 23	(B) 23	(C) 0	(D) None	
2 The smallest prin	ne number is			
(A) 0	(B) 2	(C) 1	(D) None	
3 Any point on the	X axis is of th <mark>e</mark> form			
(A) (x, y)	(B) (x, 0)	(C) (x, -y)	(D) (0, y)	
4. Which of the foll	owing equation has gra	ph parallel to Y-axis?		
(A) $y = -2$	(B) $x = 1$	(C)  x-y=2	(D) $x + y = 2$	
5. A surface is that v	which has			
(A) Length and breadth		(B) Length only		
(C) Breadth only		(D) Leng	(D) Length and height	
6. The number of li	nes that can pass throu	gh a given point is		
(A)Two	(B) None	(C) only one	(D) infinitely ma	iny
7. The equation 2x	+5y = 7 has a unique	solution, if x and y are		
(A) Natural	number	(B) Positive Real	Number	
(C) Real Nu	mber	(D) Rational Nu	umber	
	tion of the linear equati		1 1 01 '	



18. In the figure, POQ is a line. The value of x is.



20 In a cricket match, if a batsman hits a boundary 8 times out of 40 balls he plays. Then, the probability that he didn't

Section – B

[2X6=12]

## Solve any 6 question each carry 2 marks

Q 21 the coins are tossed simultaneously 500 times, and we get

Two heads one heads

no heads

105

120

Find the probability 0f occurrence of each of these events.

275

Q 22 Express 0.33333.... in the form p/q, where p and q are integers and  $q \neq 0$ .

Q 23 Find five rational numbers between 3 and 4.

Q 24 Express 0.666666....in the form P/q where p and q are integers and  $q \neq 0$ 

Q 25 Expand  $(2x + 3y + z)^2$ 

Q.26 Locate the point ( 5,0),(0,5), (2,5), (5,2),( -3,4),(4,-3),(6,1), (-2, -3) in the Cartesian plane.

Q 27. In which quadrant or on which axis do each of the point (-2,4), (3,-1), (-1,0),(1,2), (-3,-5), (0,7),(0.5,0.4),(5,-8)

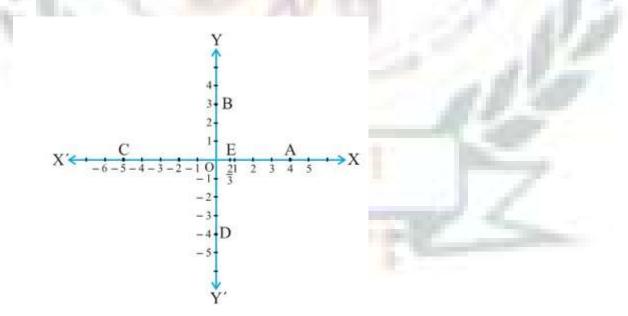
Q28. A coin is tossed 200 times and is found that a tail comes up for 120 times find the probability of getting a tail.

Section - C

[**3X8=24**]

Solve any 8 question each carry 3 marks

Q 29 Write the coordinates of the points marked on the axes in given figure

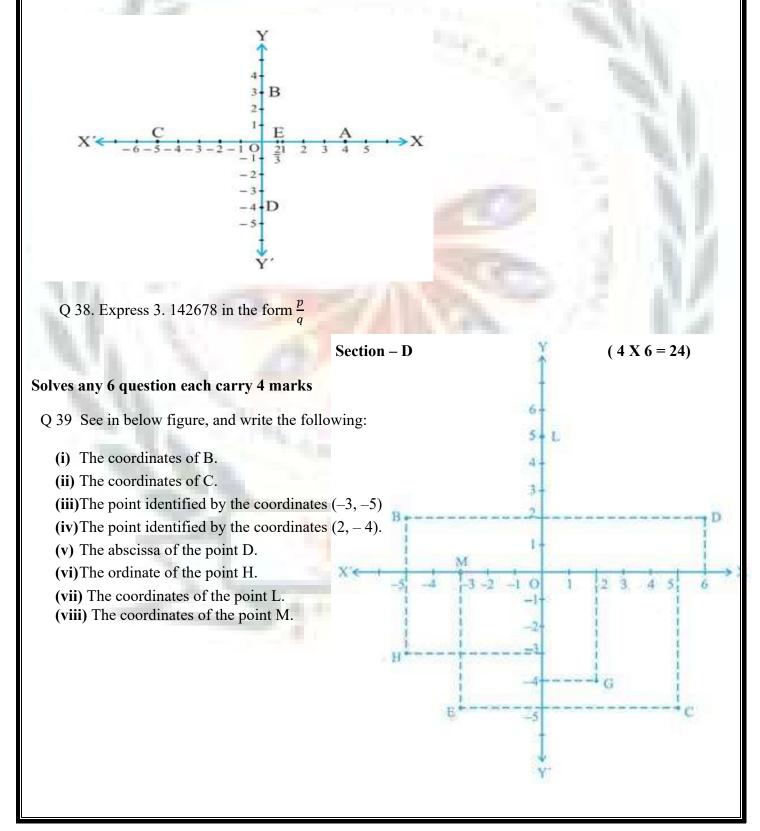


Q 30 Evaluate 103 x 107

Q 31 Find six rational numbers between 3 and 4

- Q 32 Locate  $\sqrt{2}$  on the number line
- Q 34 Write four solution for 2x + y = 7
- Q 35 Write four solution for x 4 y = 0
- Q 36:. Find: (i)  $64^{\frac{1}{2}}$  (ii)  $32^{\frac{1}{5}}$

Q 37. Write the coordinates of the points marked on the axes in given figure



Q 40. . Draw the graph of each of the following linear equations in two variables: x + y = 4

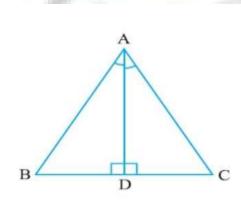
Q 41 . Draw the graph of each of the following linear equations in two variables: x - y = 2

Q 42 Simplify: (i)  $(\sqrt{3} + \sqrt{7})^2$  (ii)  $(5 + \sqrt{7})(2 + \sqrt{5})$ 

Q 43. Find the value of K, if x-1 is a factor of P(x): (i)  $x^2 + x + k$  (ii)  $kx^2 - 3x + k$ 

Q 44. Draw the graph of x + y = 7

Q 45 In triangle ABC. The bisector AD of  $\angle A$  is perpendicular to side BC. Show that AB= AC and triangle ABC is isosceles.



Q 46. Two triangles are congruent if two angles and the include side of one triangle are equal to two angles and the included side of other triangle.

