Set 3

Subject : Maths

Grade: IX

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	5_26 Mathemat 1625	Number Systems	0.000625 is the same as		D

Answer Options			
Option A	Option B	Option C	Option D
1/1000 x625	1/1000000+ 625	1000 x 625	1/1000000 x 625

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
2	**5_26 Mathematics 1627**	Number Systems	If the square of 'x' is 5, then square of '4x' will be		B

	Answer Options			
	Option A	Option B	Option C	Option D
	400	80	60	20
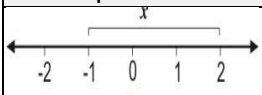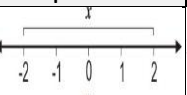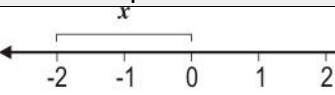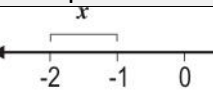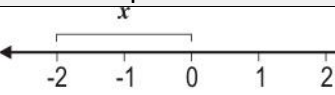
Q.N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
3	**5_26** **Mathematics** **1629**	Number Systems	Which of these numbers can be written as a non-terminating, repeating decimal?		A

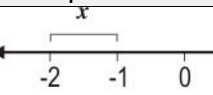| Answer Options			
Option A	Option B	Option C	Option D
1/12	3/24	$\sqrt{3}$	11/5

Q.N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
4	**5_26** **Mathematics** **1636**	Number Systems	Which of the following is equal to 1?		C	

	Answer Options			
	Option A	Option B	Option C	Option D
	$17^{-2} + 17^2$	$17^2 - 17^{-2}$	$17^{-2} \times 17^2$	$17^2 / 17^{-2}$

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
5	**5_26** **Mathematics** **1639**	Number Systems	If p is a non-zero Rational number, which of the following might NOT be Rational?		A

Answer Options			
Option A	Option B	Option C	Option D
$\sqrt{3p}$	p^{-3}	$-p^3$	3/p

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
6	**5_26** **Mathematics** **1651**	Number Systems	The set of Natural numbers is said to be 'CLOSED' under the operation '+' because for any Natural numbers m and n, the number m + n is also a Natural number. Under which operations is the set of Integers 'CLOSED'?		B

Answer Options				
Option A	Option B	Option C	Option D	
+, -, x and ÷	+, - and x	only + and x	only + and -	

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
7	**5_26** **Mathematics** **1659**	Number Systems	Which of the following numbers will have a '6' in the unit's place?		B

Answer Options			
Option A	Option B	Option C	Option D
2^6	2^{16}	2^{26}	2^{46}

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
8	5_26 Mathematics 1648	Number Systems	If x is such that it satisfies BOTH the inequalities: -2 <x and x≤ 2 which of the following number lines correctly depicts the values of x?		A

Answer Options

Option A	Option B	Option C	Option D
x -2 -1 0 1 2 **A.**	x -2 -1 0 1 2 **B.**	x -2 -1 0 **C.**	x -2 -1 0 1 2 **D.**

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
9	**5_27** **Mathematics** **8425**	Number Systems	In which of the following lists are ALL three numbers irrational?		D

Answer Options			
Option A	Option B	Option C	Option D
0, -3, 3.14	22/7 , 0.0141414....., √3	√2,√3,√4	3.919119111911119...., √5 ,π

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
10	**5_27 Mathematics 8426**	Number Systems	Scientific Notation is a concise way of writing any number in the form a x 10^b where a is a number between 1 and 10 and b is an integer. For example, 652 would be written as 6.52×10^2 in this notation. Which of the following is most likely to contain a negative exponent of 10 when represented in scientific notation?		C

Answer Options			
Option A	Option B	Option C	Option D
Number of cells in a honeycomb	Speed of light in kilometres per second	Diameter of a blood cell in centimetres	Mass of an airplane in kilograms

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
11	**5_27 Mathematics 8427**	Number Systems	What decimal fraction of the figure below is shaded		D

Answer Options			
Option A	Option B	Option C	Option D
0.45	0.045	0.09	0.18

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)	
12	5_27 Mathematics 8430	Number Systems	Which of the following is closest to 8.413/0.19 ?		C	

	Answer Options			
Option A	Option B	Option C	Option D	
0.44	4.4	44	440	

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
13	**5_27** **Mathematics** **8458**	Number Systems	The numbers in the (n + 1)th row of the Pascal's triangle also represent the coefficients of the terms in the expansion of $(x + y)^n$. For instance: $(x + y)^2 = 1x^2 + 2xy + 1y^2$, $(x+y)^3 = 1x^3 + 3x^2y + 3xy^2 + 1y^3$. The 6th row of the triangle would represent the coefficients of which of these expressions?		A

Answer Options				
Option A	Option B	Option C	Option D	
$(x + y)^5$	$(x + 5y)^6$	$(x + y)^6$	$(x + y)^4$	

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
14	5_27 Mathematics 8435	Number Systems	Which of the following statements can be true for a natural number N?		B

Answer Options			
Option A	Option B	Option C	Option D
When N is divided by 3, the remainder is 3 and when N is divided by 6, the remainder is 0.	When N is divided by 3, the remainder is 0 and when N is divided by 6, the remainder is 3.	When N is divided by 3, the remainder is 1 and when N is divided by 6, the remainder is 0.	All the three statements can be true.

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
15	**5_27 Mathematics 8431**	Number Systems	If 20% of your Maths score is equal to 30% of my Maths score on a test, which of the following best describes the relation between our scores?		A

Answer Options			
Option A	Option B	Option C	Option D
Your score is $1\frac{1}{2}$ times mine.	My score is 1/2 times yours.	You scored 10 marks more than me.	I scored 10% more than you.