



INDIAN SCHOOL AL WADI AL KABIR

Class IX, Mathematics

Worksheet-Number system

Q. No.	Section-A							
1.	A rational number between $\frac{3}{5}$ and $\frac{4}{5}$ is:							
	A	$\frac{3}{2}$	B	$\frac{4}{3}$	C	$\frac{7}{2}$	D	$\frac{7}{10}$
2.	Which one of the following is not a rational number?							
	A	$\sqrt{11}$	B	0	C	$\sqrt{16}$	D	$\sqrt{1}$
3.	The sum of 0.222... and 0.555... is:							
	A	$\frac{7}{10}$	B	$\frac{7}{9}$	C	$\frac{77}{99}$	D	$\frac{25}{99}$
4.	The number 1.101001000100001... is:							
	A	a natural number	B	a whole number	C	A rational number	D	an irrational number
5.	Decimal representation of rational number $\frac{8}{27}$ is:							
	(A)	$0.\overline{296}$	(B)	$0.2\overline{96}$	(C)	$0.2\overline{96}$	(D)	0.296
Section-B								
6.	Find any 5 rational numbers between $\frac{4}{5}$ and $\frac{5}{7}$.							
7.	Express the following rational in decimal form and identify whether it is terminating or non-terminating decimals. a) $\frac{2159}{625}$ b) $\frac{16}{45}$							
8.	Express the following decimals in $\frac{p}{q}$ form: a) 1.222... b) 12.9777... c) 9.58333...							
9.	Represent the following numbers on the number line. a) $\sqrt{3}$ b) $\sqrt{5}$ c) $\sqrt{8.5}$ d) $\sqrt{7.1}$							
10.	Write any three irrational numbers in between the following numbers. a) $\frac{4}{9}$ and $\frac{5}{9}$ b) $\frac{2}{3}$ and $\frac{3}{4}$ c) 0.1 and 0.12							

Answers								
Answers	1	D	2	A	3	B	4	D
	5	A	6	Any 5				
	7	a)3.4544 b)0.3555...	8	a) $\frac{11}{9}$ b) $\frac{584}{45}$ c) $\frac{115}{12}$	9	Construction	10	any three