	NEW ALWUROOD INTERNATIONAL SCHOOL, JEDDAH K S A	
	MATHEMATICS – Practice Paper Class – IX Time Allowed: 3 hours Maximum Marks: 90	
	 General Instructions: All questions are compulsory. The question paper consists of 31 questions divided into four sections A, B, C and D. Section-A comprises of 4 questions of 1 mark each; Section-B comprises of 6 questions of 2 marks each; Section-C comprises of 10 questions of 3 marks each and Section-D comprises of 11 questions of 4 marks each. There is no overall choice in this question paper. Use of calculator is not permitted. 	
	SECTION-A	
	Question numbers 1 to 4 carry one mark each.	
1	Find the value of $\left(\frac{64}{25}\right)^{\frac{2}{2}}$.	1
2	Check whether $x22$ is a factor of x^323x^215x26 .	1
3	If lines l and m are parallel and lines m and n are also parallel, then what can you say about the lines l and n ?	1
4	Find the reflection of the point $(2 \ 3, 2 \ 2)$ in <i>y</i> -axis.	1
	SECTION-B	
	Question numbers 5 to 10 carry two marks each.	
5	If z 5 0.064, then find the value of $\left(\frac{1}{z}\right)^{\frac{1}{3}}$.	2

6	Evaluate using suitable identity : $(105)^3$	2
7	In the figure, <i>l</i> ??m. If $\angle ABC5 \angle ABD5408$ and $\angle A5908$, then prove that $\triangle BCD$ is isosceles.	2
8	In the given figure, if point C lies between A and B, then prove that $AB > AC$. Which Euclid's axiom is applied by you ? \overrightarrow{A} \overrightarrow{C} \overrightarrow{B}	2
9	Write coordinates of the point which is the reflection of $(3, 5)$ in y - axis. Then, write coordinates of the point which is the reflection of this point in x - axis.	2
10	The longest side of a right angled triangle is 125 m and one of the remaining two sides is 100 m. Find its area using Heron's formula.	2
	SECTION-C	
	Question numbers 11 to 20 carry three marks each.	
11	Examine whether $\sqrt{2}$ is rational or irrational	3
12	Find three irrational numbers between $\frac{5}{7}$ and $\frac{9}{11}$.	3
13	By long division write the quotient and remainder, when $2x^41x^313x^214x210$ is divided by x^222x21 .	3
14	Factorise : $(x^2 25x16)^2 2(x^2 26x18)^2$.	3
15	In a triangle ABC, X and Y are the points on AB and BC respectively. If AB 5 BC and BX 5 BY, show that AX 5 CY.	3



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23	If ab1bc1ca50, find value of $\frac{1}{a^2 \ 2 \ bc} \ 1 \ \frac{1}{b^2 \ 2 \ ca} \ 1 \ \frac{1}{c^2 \ 2 \ ab}$	4
24	Using factor theorem, find the value of 'a', if $2x^42ax^314x^22x12$ is divisible by $2x11$.	4
25	Verify if 23 and 4 are zeroes of the polynomial $2x^323x^2223x112$. If yes, then factorise the polynomial.	4
26	If a1b1c50, then prove that $a^41b^41c^452(b^2c^21c^2a^21a^2b^2)$	4
27	In the given figure, on a quadrilateral ABCD shaped land in a village the Panchayat has constructed a school especially for girls. What value are they exhibiting by doing so ? How many triangles can be seen in the given figure ? Find measure of $\angle 1$.	4
28	Solve the equation a_{235} 575 and state which axiom you use here. Also give two more axioms other than the axiom used in the above situation.	4
29	In the figure, if $l??m, \angle 15(2x1y)8, \angle 45(x12y)8$ and $\angle 65(3y120)8$, find $\angle 7$ and $\angle 8$.	4
30	Find <i>x</i> and <i>y</i> in the given figure.	4

