

Name: _____						
Subject: Math		Class: 9 th		Time: 60 minutes		
Unit Number: 7		MJDexpert.com			Total Marks: 30	Obtained marks

Q#1	Circle The Correct Option				1×5=05
1. If fractions are present, we multiply each side by the L.C.M. of the..... to eliminate them:					
a) Numerator		b) Denominator		c) Factor	d) None of these
2. The equation of the form $ax + b$ is called.....					
a) Quadratic Equation		b) Linear Equation		c) Radical Equation	d) Rational Equation
3. For the removal of parentheses, we use the..... property:					
a) Commutative		b) Associative		c) Distribute	d) Closure
4. A statement involving any of the symbols $<, >, \leq, \geq$ is called.....					
a) Equation		b) Identity		c) Inequality	d) Linear Equation
5. If x is no larger than 10, then.....					
a) $x \geq 10$		b) $x < 10$		c) $x \leq 10$	d) $x = 10$
6. The equation which solution is empty set is called:					
a) Radical equation		b) Inconsistent Equation		c) Conditional Equation	d) Identity Equation
Q#2	Attempt all the short questions				2×6=12
i. Define Linear inequality in one variable?					
ii. Solve the equation and check for extraneous solution. $\sqrt[3]{2x - 4} - 2 = 0$					
iii. Solve for x , $ 2x + 5 = 11$					
iv. The formula relating degrees Fahrenheit to degree Celsius is $F = \frac{9}{5}c + 32$. For what value of c is $F < 0$?					
v. Solve the following equation. $\frac{x-3}{3} - \frac{x-2}{2} = -1$.					
vi. Solve for linear inequality $-5 \leq \frac{4-3x}{2} < 1$.					
vii. Define inconsistent equation.					
viii. Define radical equation.					
Q#3	Write detailed answer of the following questions				4×2=08
a) Solve for extraneous solution $\sqrt[3]{2x + 3} = \sqrt[3]{x - 2}$					
b) $\left \frac{x+5}{2-x} \right = 6$, solve for x .					