Grade : VIII	Subject : Maths	Section:- _____
Date :5.7.19	Periodic Test-I	Practice Worksheet

Syllabus for Periodic Test-I	**Periodic Test-I-20 Marks**	
Ch-1 Rational numbers **Ch – 2 Exponents and power** **Ch – 3 Squares and square roots** **Ch – 5 Playing with numbers**	Notebook submission 10 marks	**Dictation -15 Marks** **Mental Maths - 5 Marks** **Math lab -10 Marks**

Q1 Solve the following: (1 marks each)

1. The only rational number equal to its additive inverse.
2. A rational number which is equal to its reciprocal
3. Multiplicative inverse of $3^2 \times \frac{1}{2^3}$
4. By what number should 9^{-1} be multiplied so that the product is $(-36)^{-1}$
5. Find the value of x if $6^{-2} \div 6^{2x} = 36$
6. Find the square of 65 without performing actual multiplication.
7. Write a Pythagorean triplet whose one number is 18.
8. $\sqrt{3}$ = _____.
9. Without performing actual division find the quotient when 83-38 is divided by 9
10. Is 467910234 divisible by 11.

Q2 Solve the following (2 marks each)

1. Evaluate: $|\frac{1}{5}| + |\frac{6}{9}|$
2. Express $\frac{5}{6}$ and $\frac{-7}{4}$ on the number line (separately)
3. Write three rational numbers smaller than -2
4. Express $[\{(\frac{14}{13})^{-2}\}^{-3}]^{-5}$ with positive exponents.
5. Express 0.0000451 in standard form.
6. Find the smallest square number which is divisible by each of the numbers 4,15,10
7. Find square root of $\frac{16900}{2250000}$
8. If $\sqrt{2}$ = 1.4142 then $\sqrt{32}$ =_____
9. If 31a5 is a multiple of 3 where 'a' is a digit find the value of 'a'
10. Write 2410.25 in standard form

Q3. Solve the following (3 marks each)

1. Find three rational numbers between 8 and 9

2. Divide the sum of $\frac{3}{5}$ and $\frac{2}{7}$ by the difference of $\frac{-9}{7}$ and $\frac{7}{3}$

3. By what numbers should $[(\frac{-5}{3})^3]^{-3}$ be multiplied to obtain $(\frac{-3}{5})^6$

4. Find the smallest number by which 3528 be multiplied to get a perfect square.

5. How many non- perfect square numbers lie between the square of 16 and 17.

6.
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  1 A B                        1 A
×     B          and         × A
_____                     _____
  6 A B                       9 A
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Q4 Solve the following (4 marks each)

1. Use distributive property to evaluate: $\frac{8}{13} \times 4\frac{1}{5} - 3\frac{1}{3} \times \frac{8}{13}$

2. Verify- $\frac{5}{9}[\frac{3}{26} + (-\frac{2}{13})] = (-\frac{5}{9} \times \frac{3}{26})$

3. Simplify : $\frac{4^{-2} \times 10^{-4}}{2^{-5} \times 5^{-4} \times 2^{-2}}$

4. Using long division method find $\sqrt{18496}$ and $\sqrt{0.008649}$

5. Using successive subtraction method find square root of 196.

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