

BCM SCHOOL,BASANT AVENUE,DUGRI, LUDHIANA
APRIL ASSIGNMENT
CLASS VIII (MATHEMATICS)
TOPIC RATIONAL NUMBERS,SQUARES AND SQUARE ROOTS

SECTION A (MULTIPLE CHOICE QUESTIONS)	
Q1	The multiplicative identity of rational numbers is a)0 c)2 b)1 d)-1
Q2	Which of the following is commutative for rational numbers? a)Addition and subtraction b)Addition and multiplication c)Multiplication and divisio d)Subtraction and division
Q3	Which of the following is the reciprocal of the reciprocal of a rational number? a)-1 b)1 c)0 d)The number itself
Q4	Which of the following is Pythagorean triplet a) (2,3,5) b) (5,7,9) c) (6,9,11) d) (8,15,17)
Q5	Name the property under multiplication used $-4/5 \times 1 = 1 \times -4/5 = -4/5$ a)Distributive property b)Multiplicative inverse c)Multiplicative identity d)Associative property
SECTION-B (2 MARKS QUESTIONS)	
Q6	By what number should we multiply $-1/6$ so that the product may be $-23/9$?
Q7	Find the side of a square whose area is 784 m^2
Q8	A train covers 256 km in an hour. How much distance it would cover in $35/8$ hours?
SECTION - C (3 MARKS QUESTIONS)	

Q9	The product of two rational numbers is $-\frac{8}{9}$. If one of the numbers is $-\frac{4}{15}$, find the other.
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Q10	What should be added to $(\frac{1}{2} + \frac{1}{3} + \frac{1}{5})$ to get 3?
Q11	Find the square root of 8 up to 2 decimal places

SECTION – D (5 MARKS QUESTIONS)

Q12	Verify the property $x \times (y \times z) = (x \times y) \times z$ of rational numbers by using $x = \frac{2}{3}$, $y = -\frac{3}{7}$ and $z = \frac{1}{2}$ and what is the name of this property?
Q13	Divide the sum of $\frac{13}{5}$ and $-\frac{12}{7}$ by the product of $-\frac{31}{7}$ and $\frac{1}{-2}$
Q14	Find the smallest no. by which 14175 is divided so that the number becomes a perfect square. Also find the square root of this perfect square

SECTION – E (CASE STUDY)

Q15	<p>Amit earns ₹32000 per month. He spends $\frac{1}{4}$ of his income on food, $\frac{3}{10}$ of the remainder on house rent and $\frac{5}{21}$ of the remainder on the education of children.</p> <p>i) Find the money spent on food?</p> <p>ii) Find the money spent on house rent?</p> <p>iii) How much money is still left with him?</p>
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