BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

CLASS: VIII

SUBJECT: MATHEMATICS (041)

ASSIGNMENT – 1

CH: 1 (RATIONAL NUMBERS) + CH: 5 (SQUARES AND SQUARE ROOTS)

SESSION: 2023-2024

MCQs

Q.1 The additive inverse of $\frac{-5}{-12}$ is

a) 0   b) 1

c) $\frac{5}{12}$ d) $\frac{-5}{12}$

Q.2 $\sqrt{0.9} \times \sqrt{1.6} =$

a) 0.12   b) 1.2

c) 0.75   d) 12

Q.3 Which of the following is a Pythagorean Triplet?

a) (2, 3, 5)   b) (5, 7, 9)

c) (6, 9, 11)   d) (8, 15, 17)

ASSERTION/REASONING

Q.4 Assertion (A) –Between 50 and 60, the perfect square number is 54.

Reasons (R) –A perfect square is a number that can be expressed as the product of an integer by itself or as the second exponent of an integer.

a) Both A and R are true and R is the correct explanation of A

b) Both A and R are true but R is not the correct explanation of A

c) A is true but R is false
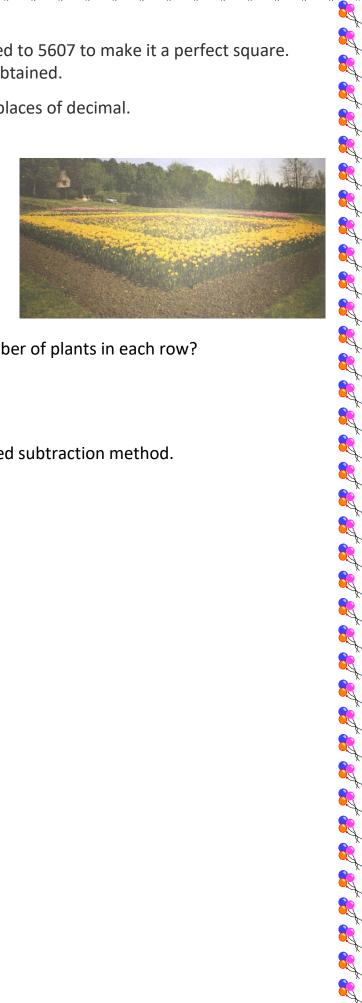
d) A is false but R is true

SUBJECTIVE QUESTIONS

Q.5 The sum of two rational numbers is -5. If one of them is $\frac{-13}{6}$, find the other.

Q.6 Find the least no. that must be added to 5607 to make it a perfect square. Also find the square root of the no. so obtained.

Q.7 Find the square root of 2 upto two places of decimal.

CASE STUDY

Q.8 There is a square garden in a village Mahuli. A gardener planted 8281 plants in a garden in such a way that each row contains as many plants as the number of rows. If the area of the garden is $1225m^2$. Answer the questions that follows:

i) Find the number of rows and the number of plants in each row?

ii) Find the side of the square garden?

iii) Find the perimeter of the garden?

iv) Find the square root of 25 by repeated subtraction method.