DAVMPS, Patratu, Rajpur, Balrampur,

Class - 8th

Holiday Homework

Subject - Maths

Q.① Write and remember table up to 20.

Q②. Define:-

(a) Rational Number (b) variable
(c) Coefficient (d) Equation.
(e) Algebric Expression (f) Linear Equation.
(g) Squar of Number (h) Cube of Number
(i) Prime Number (j) Co-prime Number
(k) Line (l) Point (m) Ray.

Q.③. Solve:-

(i) $(-900) + 871 + (-1500) + 300$

(ii) $(-8) \times \{-3 \times (12)\}$

(iii) $9^2 \times (-1)^{999} \times (-2)^5 \times (-20)^2$

(iv) $(-511) + 900 + (-541) + (-273)$

Q④:- Solve worksheet - ⑤ of Chap. 01.
and
Solve BRAIN TEASERS all questions of Chap. 01.

Q⑤:- Project work.

(i) Explain (a) Triangle and it's type
(b) Angle and it's all type

(ii) Write all formulas of Profit and Loss.

Worksheet 5

1. Find the square root of the following fractions.

(i) $\frac{324}{361}$ (ii) $\frac{441}{961}$ (iii) $5\frac{19}{25}$ (iv) $21\frac{51}{169}$

(v) $\frac{5625}{441}$ (vi) $7\frac{18}{49}$ (vii) $23\frac{394}{729}$ (viii) $35\frac{85}{1444}$

2. Find the value of:

(i) $\sqrt{0.0009}$ (ii) $\sqrt{0.0081}$ (iii) $\sqrt{0.012321}$ (iv) $\sqrt{7.29}$

3. Find the square root of:

(i) 0.053361 (ii) 0.00053361 (iii) 150.0625

(iv) 0.374544 (v) 610.09

4. Find the square root of the following (correct to three decimal places).

(i) 7 (ii) 2.5 (iii) $2\frac{1}{12}$ (iv) $367\frac{2}{7}$

5. Estimate the value of the following to the nearest to one decimal place.

(i) $\sqrt{90}$ (ii) $\sqrt{150}$ (iii) $\sqrt{600}$ (iv) $\sqrt{1000}$

6. Devika has a square piece of cloth of area 9 m^2 and she wants to make 16 square-shaped scarves of equal size out of it. What should possibly be the length of the side of the scarf that can be made out of this piece?

7. The area of a square plot is 800 m^2. Find the estimated length of the side of the plot.

Value Based Questions

1. Priya wants to wish her teacher on Teacher's Day by giving her a self-made greeting card. She chooses a pink coloured square sheet of paper. A side of that paper measures 19.5 cm.

(a) Find the area of paper she chooses for the card.

(b) What act of Priya did you like?

Brain Teasers

1.A. Tick (✓) the correct option.

(a) The difference between the squares of two consecutive number is equal to their—

(i) difference (ii) sum (iii) product (iv) quotient

(b) What will be the digit in the thousands place of $(1111)^2$?

(i) 3 (ii) 4 (iii) 2 (iv) 1

(c) Perfect squares cannot have 2, 3, __ and __ in its ones place.

(i) 1, 7 (ii) 5, 6 (iii) 7, 8 (iv) 7, 9

(d) The smallest number by which 72 must be divided to make it a perfect square is—

(i) 4 (ii) 5 (iii) 3 (iv) 2

(e) The square root of 3.052009 has ____ decimal places.

(i) 3 (ii) 4 (iii) 5 (iv) 1

B. Answer the following questions.

(a) How many non–square numbers are there between 13^2 and 14^2?

(b) Write the first four triangular numbers.

(c) Is 5, 7, 9 a Pythagorean triplets? Why? Justify.

(d) Find $\sqrt{9}$ by repeated subtraction method.

(e) Find the measure of the side of a square handkerchief of area 324 cm^2.

2. Find the square root of 10 correct to four places of decimal.

3. Find the values of : $\sqrt{3.1428}$ and $\sqrt{0.31428}$ correct to three decimal places.

4. Simplify:

(i) $\frac{\sqrt{0.0441}}{\sqrt{0.000441}}$ (ii) $\sqrt{49} + \sqrt{0.49} + \sqrt{0.0049}$

5. The area of a square field is $101\frac{1}{400}$ m^2. Find the length of one side of the field.

6. What is that number which when multiplied by itself gives 227.798649?

7. In a lecture hall, 8,649 students are sitting in such a manner that there are as many students in a row as there are rows in the lecture hall. How many students are there in each row of the lecture hall?

8. A General wishing to draw up his 64,019 men in the form of a square found that he had 10 men extra. Find the number of men in the front row.

HOTS